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COMPUTATIONAL FLUID DYNAMICS (CFD) ANALYSIS OF A C-135 AIRCRAFT WITH A SIDE-MOUNTED SPLITTER PLATE (with comparison to wind tunnel data)

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A Computational Fluid Dynamics (CFD) analysis was performed on a C-135 aircraft with a side-mounted splitter plate at the request of the Airborne Laser SPO at Kirtland AFB, and the 4950 Test Wing at Wright-Patterson AFB. The data collected from the analysis was provided to the Test Wing to augment wind tunnel tests and to provide loading and stability information on the modified aircraft. This work was a precursor to a planned flight test program in which a splitter plate will be tested on a Test Wing aircraft. Four flight conditions were analyzed with a modified and unmodified C-135 aerodynamic model, and incremental stability and aerodynamic derivatives were determined. Additionally, pressure coefficient data were tabulated for use in a structural analysis by the Test Wing.

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Foreword

The subject analysis was performed by Mr Howard Emsley and Mr Ken Wurtzler of the Flight Dynamics Directorate, Wright Laboratory (WL/FIMC) at the request of the Airborne Laser (ABL) SPO at Phillips Lab, Kirtland AFB. Capt John Wissler of the ABL SPO served as the directing authority for this support effort and Dr James Van Kuren provided direction as the resident consultant for the ABL SPO. This analysis was performed to support a planned ABL flight test in which a large splitter plate configuration will be mounted on the side of a C-135 aircraft.

Acknowledgements

This work was performed with the cooperation of personnel from the Airborne Laser (ABL) SPO at Kirtland AFB, the 4950TW at Wright-Patterson AFB, and Dr James Van Kuren who is serving as an ABL SPO consultant. A special thanks goes to members of Wright Laboratory (WL/FIMC) for their code developing efforts which provided the tools necessary to perform this analysis.

All wind tunnel data used in this report comes from tests conducted at the Trisonic Gasdynamics Facility, Wright Laboratory (WL/FIME) in April 1993. This data was made available by Dr Van Kuren, for comparison with the numerical results.

Nomenclature

Alpha	*Angle of Attack*
AOA	*Angle of Attack*
Beta	*Sideslip Angle*
CD	*Coefficient of Drag*
CFD	*Computational Fluid Dynamics*
CL	*Coefficient of Lift*
CMpitch	*Pitching Moment Coefficient*
CMyaw	*Yawing Moment Coefficient*
CMroll	*Rolling Moment Coefficient*
Cp	*Coefficient of Pressure*
CPU	*Central Processing Unit*
CY	*Coefficient of Yaw*
deg	*Degrees (angular)*
FIMC	*Computational Fluid Dynamics Branch, Aeromechanics Division, Flight Dynamics Directorate*
KEAS	*Knots Equivalent Air Speed*
mxx	*Moment about the X-Axis*
myy	*Moment about the Y-Axis*
mzz	*Moment about the Z-Axis*
px	*Pressure in the X Direction*
py	*Pressure in the Y Direction*
pz	*Pressure in the Z Direction*
q	*Dynamic Pressure*
Ve	*Velocity*
WL	*Wright Laboratory*

1. Introduction

The splitter plate/optical window configuration (see Figure 1) was designed to provide an environment where optical testing can be performed without the interference of the turbulent boundary layer created by the aircraft's fuselage. The pylon, which is mounted on the side of the aircraft, places the splitter plate at least 12 inches away from the fuselage and outside the fuselage boundary layer. By mounting the splitter plate in this fashion, the optical testing will only have to contend with a regenerated thin boundary layer that starts at the front of the plate.

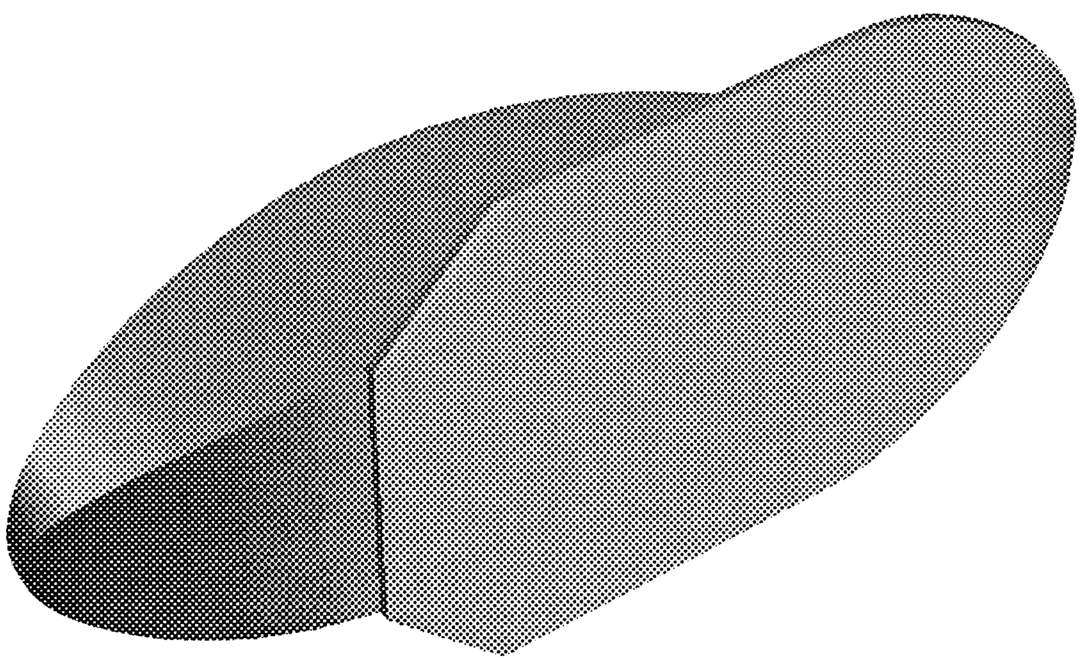


Figure 1: Splitter Plate and Pylon

Concern over the flight characteristics of the modified aircraft as well as concerns about structural loading prompted wind tunnel and Computational Fluid Dynamics (CFD) work to be performed by WL/FIME and WL/FIMC respectively. Structural analysis of the configuration is being performed by the 4950TW/AMDA with pressure data provided by the CFD analysis.

Some results from the wind tunnel testing will be presented in this report, however, complete results are found in Reference 1. For results from the structural analysis, the reader is directed to Mr Kelly Kennedy, 4950TW/AMDA.

The splitter plate/pylon design, geometric measurements of the splitter plate, and its mounting location on the aircraft were provided to WL/FIMC by Dr Jim Van Kuren and Capt Wissler. The test conditions for the CFD analysis (see Table 1) were provided to WL/FIMC by Mr C. E. Cook of 4950TW/AMDA on 1 March 1993 and were confirmed by the ABL SPO in early March.

Table 1: Flight Conditions

Test Pt.	Altitude (feet)	Airspeed (KEAS)	Mach No.	AOA (deg)	Sideslip (deg)	CL**
1	23,800	393	0.95	1.4	4.1	0.21
2	23,800	393	0.95	5.5	4.1	0.525
3	0	240	0.36	14.6	14.5	1.16
4	45,000	189	0.76	3.0	0.0	0.58

**Note: the CL values provided in this table are for a complete C-135 in trim. The analyses performed do not include nacelle/pylon contributions and do not include the effects of rudder, elevator, or flap deflections.

It was explained to WL/FIMC that concern over changes in the flight characteristics of the modified aircraft was the main reason a CFD analysis was requested. Therefore, it was proposed that the total aircraft be modeled (with and without the splitter plate) and analyzed at the four test

points. By proceeding in this fashion, incremental effects of adding the plate/pylon configuration could be determined. For this report the C-135 aircraft without the splitter plate is called the "clean" configuration, and the C-135 aircraft with the plate and pylon mounted on the right side of the fuselage is called the "dirty" configuration.

2. Geometric Issues

From previous work for the 4950TW, WL/FIMC had a suitable model of a C-135 wing/body/tail configuration without engine pylons and nacelles. For the dirty case, the plate/pylon geometry was created with a local CAD/CAM system and added to the existing C-135 geometry. A small support strut which is located under the front of the plate for structural strength was omitted from this analysis due to the increased geometric complications that it would introduce and the minor aerodynamic effects it would produce.

For the dirty configuration, the plate/pylon (location provided by Capt John Wissler) was added to the geometry with the front of the elliptical pylon located at fuselage station 405.35 inches. Based on the provided dimensions, the center of the test window is located at fuselage station 460 inches (see Figure 2). The location of the plate/pylon was driven by aircraft modification limitations.

For this analysis, the pylon was placed with zero angle of attack relative to the fuselage of the aircraft. The minimum distance between the plate and the fuselage was specified as 12 inches by Dr Van Kuren and occurs between the lower half of the plate and the fuselage approximately one quarter of the distance aft from the front of the pylon. The very front of the plate which is dipped towards the fuselage is just under 13 inches away from the fuselage.

For the calculation of the coefficients, the following reference areas, moment reference lengths, and moment reference points were provided by the 4950TW/AMDA:

```
                  Wing Reference Area = 700700 sq in

     Moment   x = 1570.00 in          Moment  x = 846.64 in
  Reference   y =  241.88 in       Reference  y =   0.00 in
    Lengths   z = 1570.00 in           Point  z = 200.00 in
```

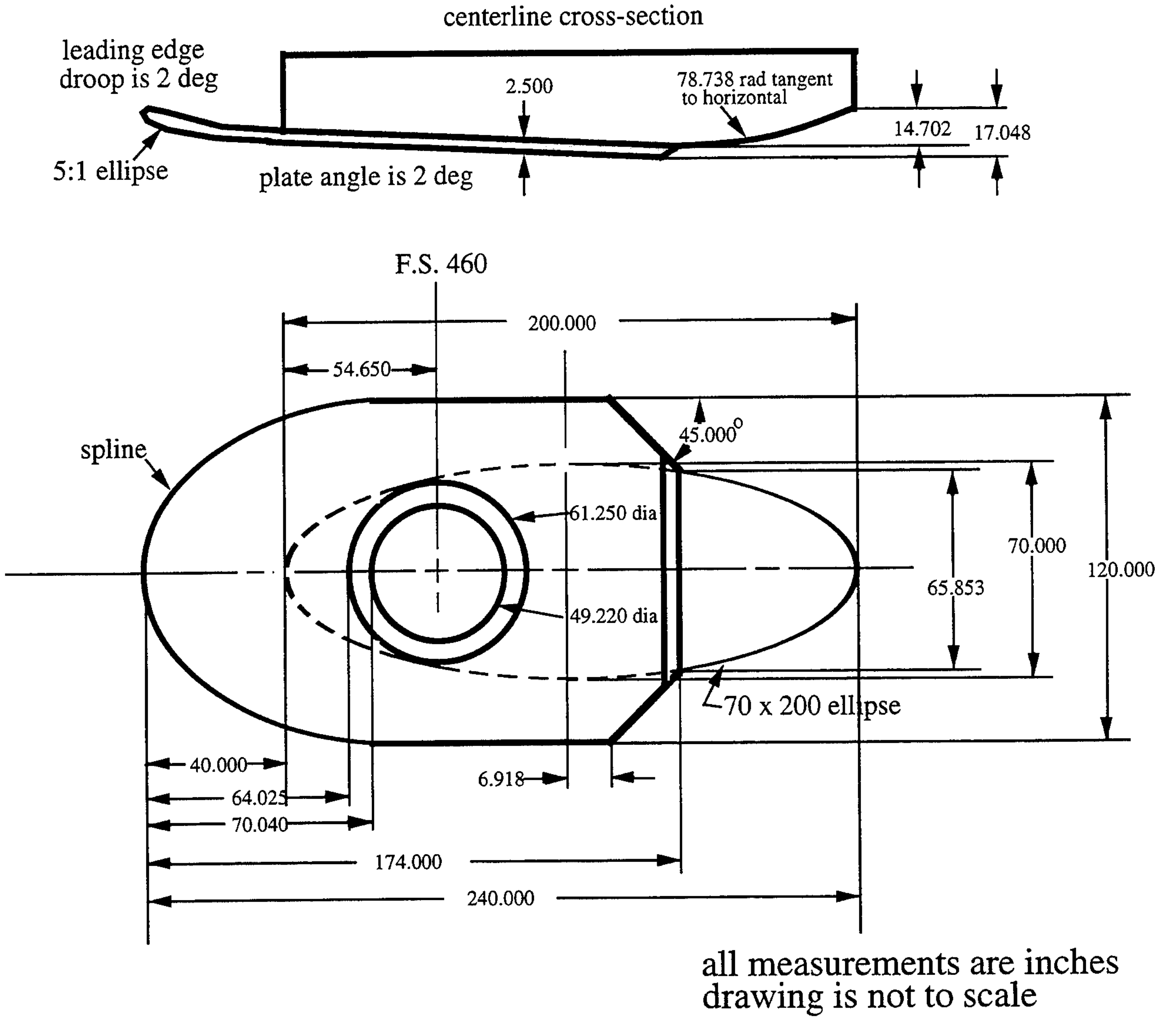


Figure 2: Splitter Plate and Pylon Dimensions

The coordinate system orientation and the positive moment directions are shown below in the figure below.

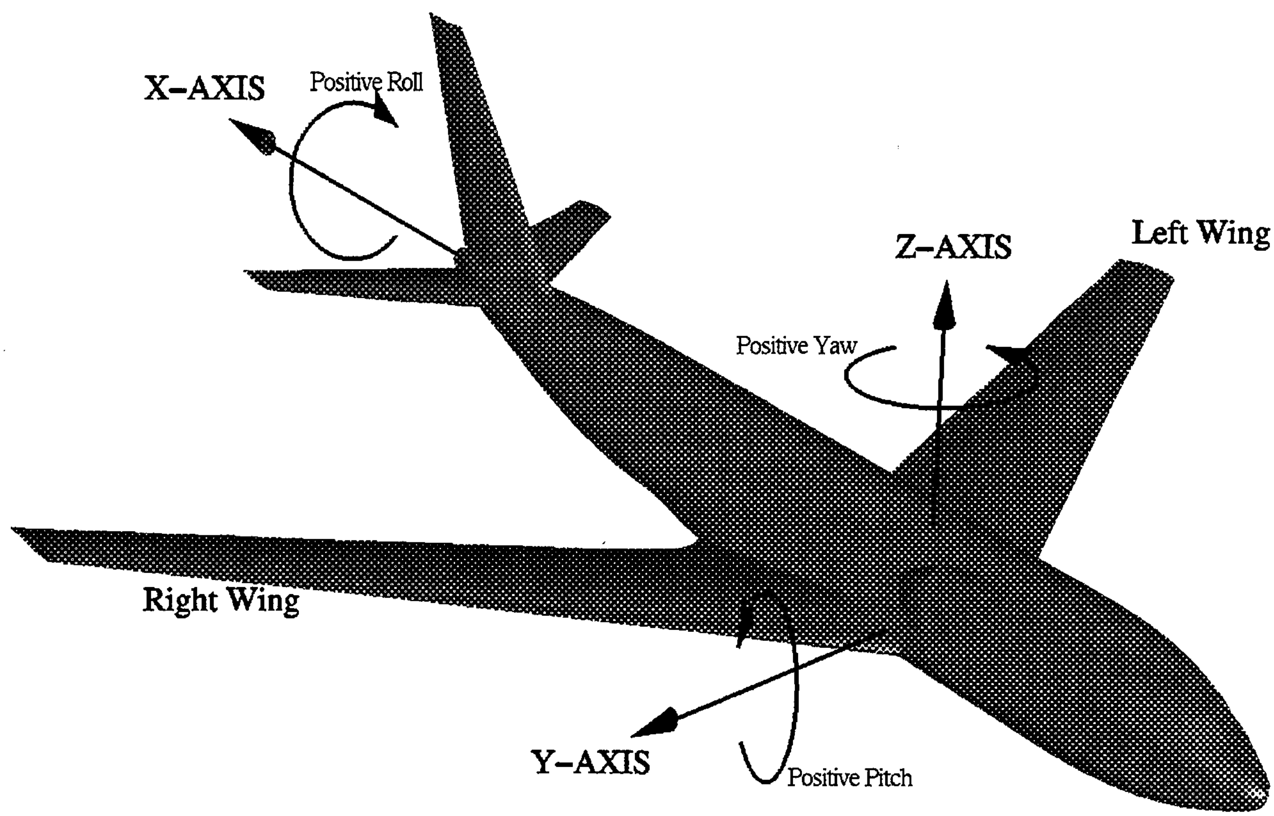


Figure 3: Coordinate System Orientation

3. Grid Generation

With the use of in-house grid generation tools (I3G/VIRGO and PLUTO) [2,3], separate computational grids were generated for each configuration (clean and dirty). The grid for the clean configuration consisted of 22 computational blocks with a total of 1,366,720 grid points and the dirty configuration consisted of 33 computational blocks with a total of 1,379,250 grid points. Differences in the size and the number of blocks in each grid is a direct result of geometric complications added by the plate and pylon.

4. Flow Solver

The flow solver used for this analysis, MERCURY, is an in-house Euler code that was developed by Mr William Strang of WL/FIMC [4]. Over the past six years, this code has proven to be very fast, robust, and accurate in calculating flows like those occurring in this analysis. MERCURY is an inviscid flow solver and therefore cannot model the boundary layer that is a concern for this program. It can, however, provide conservative loading information, capture shocks that may occur, and indicate the paths of particles and vortices. This is not a claim that an inviscid solver provides exact measurements in highly viscous regions. Yet, from past experience this solver has produced load information that has proven to be conservative in regions where viscous flows exist. With this in mind, the flight conditions provided for test point #3 contain an extreme beta condition that can produce significant separation on the leeward side of the aircraft. The results in this case should be viewed qualitatively, especially for the dirty configuration where significant separation is expected to occur on the outboard side of the plate. For additional information on the code specifics, the reader is directed to AFWAL-TM-88- 217, "MERCURY User's Manual."

Viscous solvers, such as the TEAM and GASP codes, were considered for this problem, but the time constraints and the computational resources available did not allow an analysis of this magnitude.

5. Flow Conditions and Computation Time

For this report, a total of nine flow solution "cases" (five clean cases and four dirty cases) have been run. The Kirtland Cray II was used to calculate the solutions with each case requiring approximately 35 MW of internal memory. On average, 6000 iterations per solution were needed to reach acceptable levels of solution convergence (density residual reduced by 4 orders of magnitude). Each clean case took 28 seconds per iteration while each dirty case took 29 seconds/iteration. This translates into 168,000 seconds per solution (46.67 CPU hours) for each clean case and 174,000 seconds per solution (48.33 CPU hours) for each dirty case. The flow conditions for each case are based on the conditions provided by the 4950TW with several modifications. For the clean cases the actual conditions used are found in Table 2, and for the dirty cases the conditions used are found in Table 3.

Table 2: Clean Case Test Conditions

Mach Number	Angle of Attack (Alpha)	Sideslip Angle (Beta)
0.95	5.5 deg	-4.1 deg
0.95	1.4 deg	-4.1 deg
0.87	1.4 deg	-4.1 deg
0.36	14.6 deg	-14.5 deg
0.76	3.0 deg	0.0 deg

Table 3: Dirty Case Test Conditions

Mach Number	Angle of Attack (Alpha)	Sideslip Angle (Beta)
0.95	5.5 deg	-4.1 deg
0.87	1.4 deg	-4.1 deg
0.36	14.6 deg	-14.5 deg
0.76	3.0 deg	0.0 deg

A negative sideslip angle was used as a direct result of the beta of most concern to the 4950TW. For the clean configuration, the direction the aircraft is sideslipped is not critical due to the symmetry of the aircraft, but for the dirty configuration this direction is crucial.

In the MERCURY flow solver, a negative beta implies that the nose of the aircraft yaws to the right (see Figure 3). Therefore, the decision to use negative beta conditions places the plate on the leeward side of the aircraft in yawed cases. This decision was made due to loading and aerodynamic concerns which were expected to be more significant than those for positive beta conditions. By changing signs of the results for the clean cases, it is possible to use the values for direct comparison with the dirty cases.

In addition to the change of beta, a change in Mach number from 0.95 to 0.87 was made for the dirty cases and led to an additional run of a clean case for direct comparison. This decision was made to add a flight condition clearly within the envelope as compared to those on the margin. With the plate and pylon mounted on the aircraft, it is unlikely that the aircraft will be flown at the outer limits of its Mach envelope. This change was made with the concurrence of Capt Wissler.

6. CFD Results

Results from this analysis are presented in a variety of forms in the following sections.

6.1 Tables of Coefficients

Coefficients of Lift (CL), Drag (CD), Yaw (CY), as well as Moment Coefficients for Pitch (CMpitch), Yaw (CMyaw), and Roll (CMroll) were created for the clean and dirty solutions (Tables 4 and 5). In addition, incremental coefficient changes (Table 6) were calculated for the three cases where a direct comparison of flow conditions was possible.

The tabulated results show that the presence of the plate/pylon reduces the CL for moderate angles of attack. Although the pylon produces some lift, its influence on the right wing creates a net loss. In turn, the reduced lift on the right wing of the aircraft and the increased lift on the pylon appears to add to the nose up pitching moment and increases the negative rolling moment. In addition, the changed flow on the right wing leads to an increased positive yawing moment. By changing the downwash from the right wing, the airflow on the right side of the vertical tail is accelerated and produces additional yaw.

Results from the Mach 0.36 case illustrate a more complex flow field, and should be viewed in a qualitative manner. The severe angles of attack and sideslip produce massive separation on the left wing and the right side of the vertical tail and produces a wake off of the plate which follows the trailing edge of the wing (see Figure 11). The tabulated data shows a small increase in CL while CD increases significantly. It is important to remember that optical data will not be taken at this flight condition. Therefore, interest in this condition is purely for control and structural purposes.

Table 4: Coefficients for the Clean C-135

MACH	ALPHA (deg)	BETA (deg)	CL	CD	CY	CMpitch	CMyaw	CMroll	AXIS
0.95	5.5	-4.1	0.4723	0.09357	0.02082	-0.25269	0.008940	0.020049	W
			0.4723	0.09184	0.02746	-0.25348	0.008940	0.001931	S
			0.4790	0.04615	0.02746	-0.25348	0.008714	0.002779	B
0.95	1.4	-4.1	0.2831	0.04953	0.02575	-0.17381	0.009773	-0.016108	W
			0.2831	0.04757	0.02922	-0.17451	0.009773	-0.003639	S
			0.2841	0.04064	0.02922	-0.17451	0.009681	-0.003877	B
0.87	1.4	-4.1	0.3168	0.03357	0.03083	-0.10977	0.011409	-0.016773	W
			0.3168	0.03128	0.03315	-0.11069	0.011409	-0.008882	S
			0.3175	0.02353	0.03315	-0.11069	0.011189	-0.009158	B
0.36	14.6	-14.5	0.5239	0.12461	0.01152	-0.20866	0.010332	0.071486	W
			0.5239	0.11776	0.04236	-0.21991	0.010332	0.016965	S
			0.5366	-0.01810	0.04236	-0.21991	0.005722	0.019022	B
0.76	3.0	0.0	0.3486	0.02182	0.00000	-0.10001	0.000000	0.000000	W
			0.3486	0.02182	0.00000	-0.10001	0.000000	0.000000	S
			0.3492	0.00355	0.00000	-0.10001	0.000000	0.000000	B

(Axis Systems: W = Wind, S = Stability, B = Body)

NOTE: For this analysis, a negative beta indicates the nose sideslips toward the right wing.

Table 5: Coefficients for the C-135 with Splitter Plate and Pylon

MACH	ALPHA (deg)	BETA (deg)	CL	CD	CY	CMpitch	CMyaw	CMroll	AXIS
0.87	5.5	-4.1	0.4856	0.07605	0.03039	-0.14908	0.014029	-0.020329	W
			0.4856	0.07368	0.03575	-0.15015	0.014029	-0.009618	S
			0.4904	0.02680	0.03575	-0.15015	0.013042	-0.010919	B
0.87	1.4	-4.1	0.3071	0.03356	0.03214	-0.10517	0.012059	-0.016904	W
			0.3071	0.03118	0.03446	-0.10611	0.012059	-0.009341	S
			0.3078	0.02367	0.03446	-0.10611	0.011827	-0.009633	B
0.36	14.6	-14.5	0.5246	0.13415	0.04090	-0.21835	0.024171	-0.072048	W
			0.5246	0.11964	0.07318	-0.22944	0.024171	-0.015082	S
			0.5378	-0.01647	0.07318	-0.22944	0.019588	-0.020688	B
0.76	3.0	0.0	0.3377	0.02318	0.00207	-0.08511	0.002170	-0.001423	W
			0.3377	0.02318	0.00207	-0.08511	0.002170	-0.001423	S
			0.3384	0.00548	0.00207	-0.08511	0.002093	-0.001534	B

(Axis Systems: W = Wind, S = Stability, B = Body)

NOTE: For this analysis, a negative beta indicates the nose sideslips toward the right wing. The plate is on the leeward side of the aircraft for all dirty cases.

Table 6: Incremental Coefficient Changes

INCREMENTAL COEFFICIENT CHANGES BETWEEN CLEAN AND DIRTY CONFIGURATIONS

DIRTY RESULTS MINUS CLEAN RESULTS (WIND-AXIS ONLY)

MACH	ALPHA (deg)	BETA (deg)	(delta) CL	(delta) CD	(delta) CY	(delta) CMpitch	(delta) CMyaw	(delta) CMroll
0.87	1.4	-4.1	-0.0097	-0.00001	0.00131	0.00460	0.000650	-0.000131
0.36	14.6	-14.5	0.0007	0.00954	0.02938	-0.00969	0.013839	-0.000562
0.76	3.0	0.0	-0.0109	0.00136	0.00207	0.01490	0.002170	-0.001423

6.2 Particle Trace Plots for Clean Aircraft

The particle trace plots for the clean cases are shown in Figures 4 - 8. The plots are provided to illustrate the angle of the air flow for a cross-section of the cases run.

The particle traces on the clean configuration shown in the following figures are plotted on and off the fuselage surface. The white streamlines are on the surface and the black streamlines are started approximately 1 foot off the surface (roughly the height of the pylon).

The plots show that the flow angularity is greater on the surface than off the surface in all cases. In general, the flow angle is approximately equal to the angle of attack (alpha) in the region where the plate will be attached, but it increases significantly as the flow approaches the wing.

These plots are only a sampling of the plots that were viewed by the investigators. The additional plots viewed were consistent with the trends demonstrated in those selected.

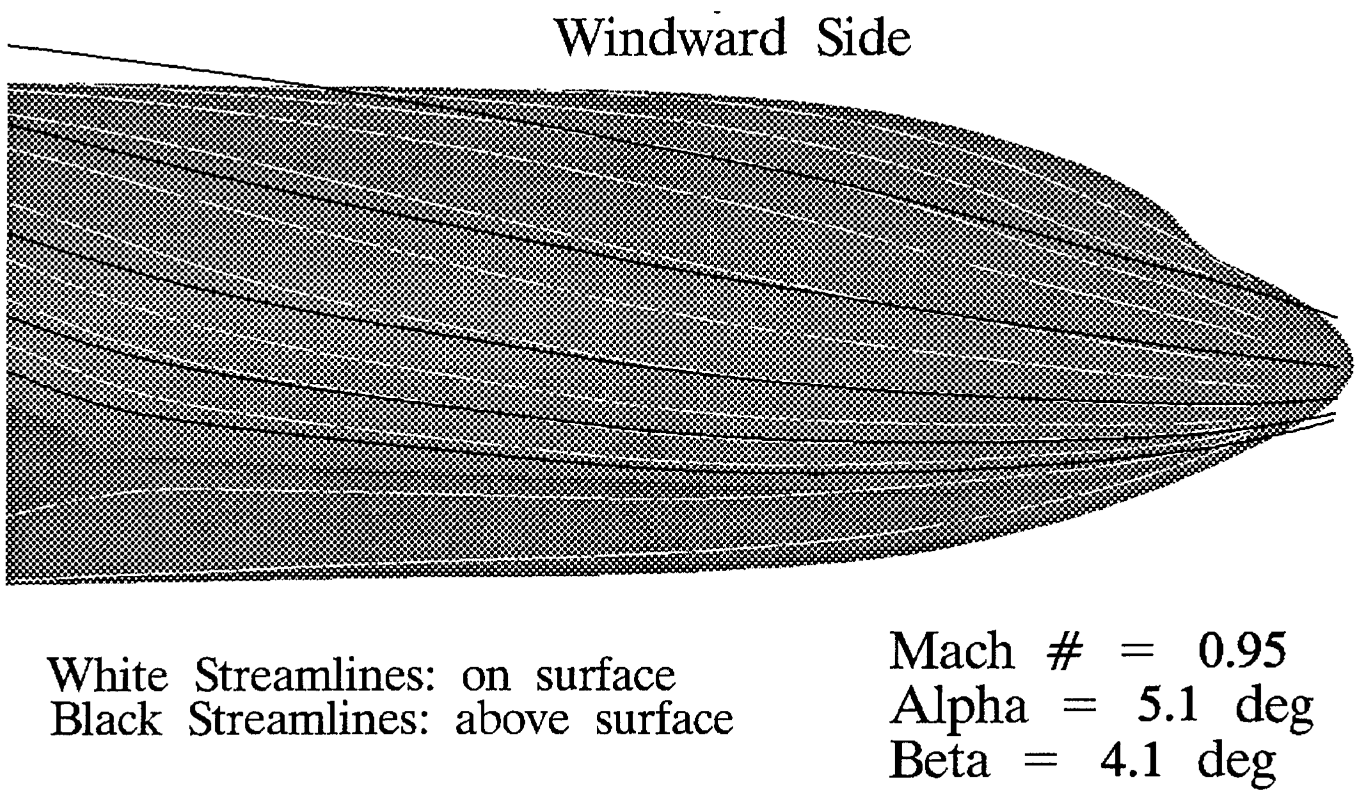


Figure 4: C-135 with Velocity Vectors on Surface (Windward Side)

(Mach=0.95, Alpha=5.5 deg, Beta=4.1 deg)

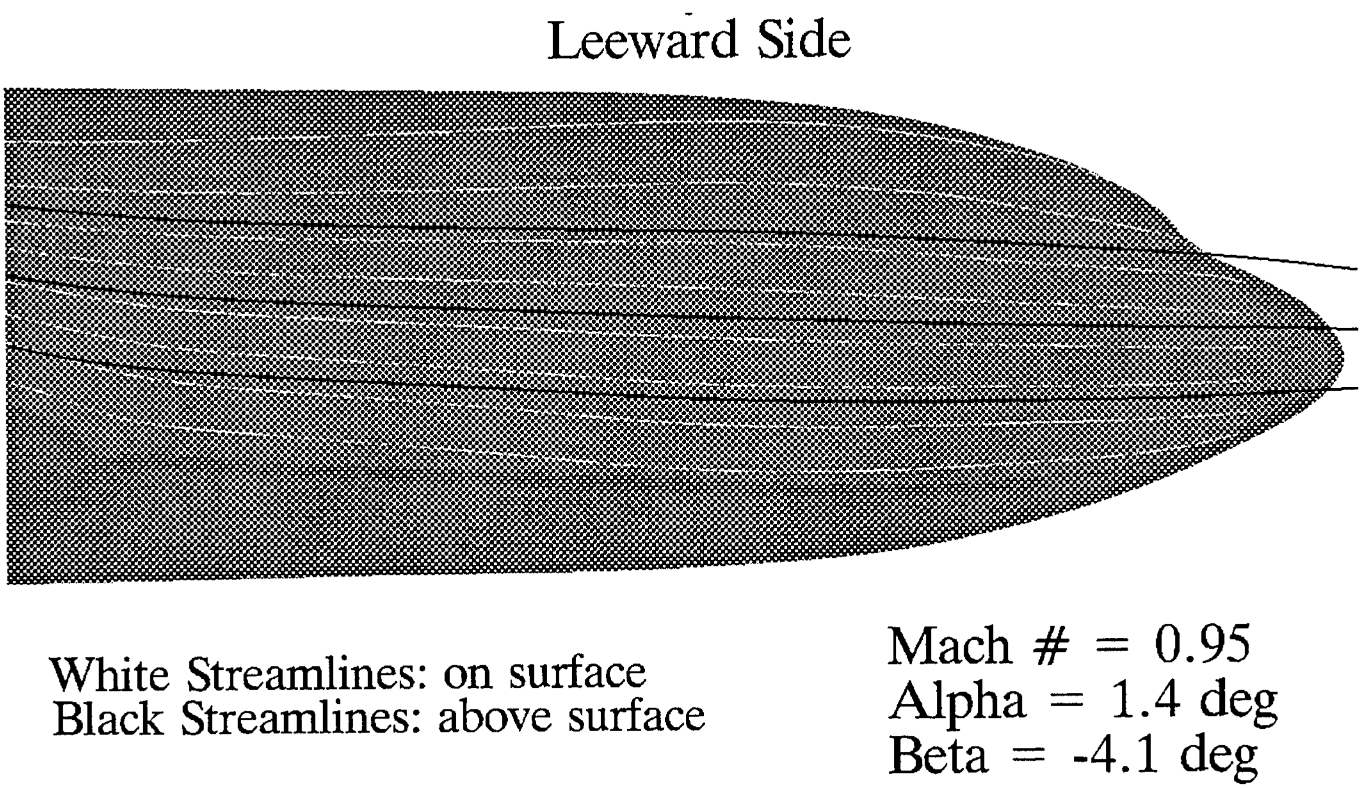
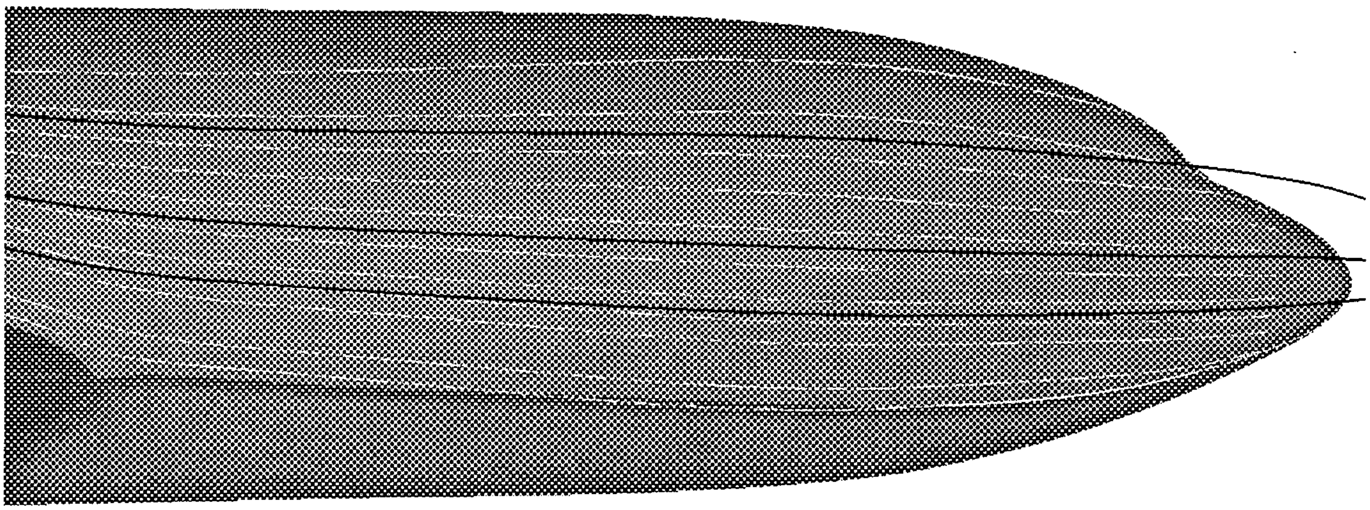


Figure 5: C-135 with Velocity Vectors on Surface (Leeward Side)

(Mach=0.95, Alpha=1.4 deg, Beta=-4.1 deg)

Leeward Side



White Streamlines: on surface
Black Streamlines: above surface

Mach # = 0.87
Alpha = 1.4 deg
Beta = -4.1 deg

Figure 6: C-135 with Velocity Vectors on Surface (Leeward Side)
(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

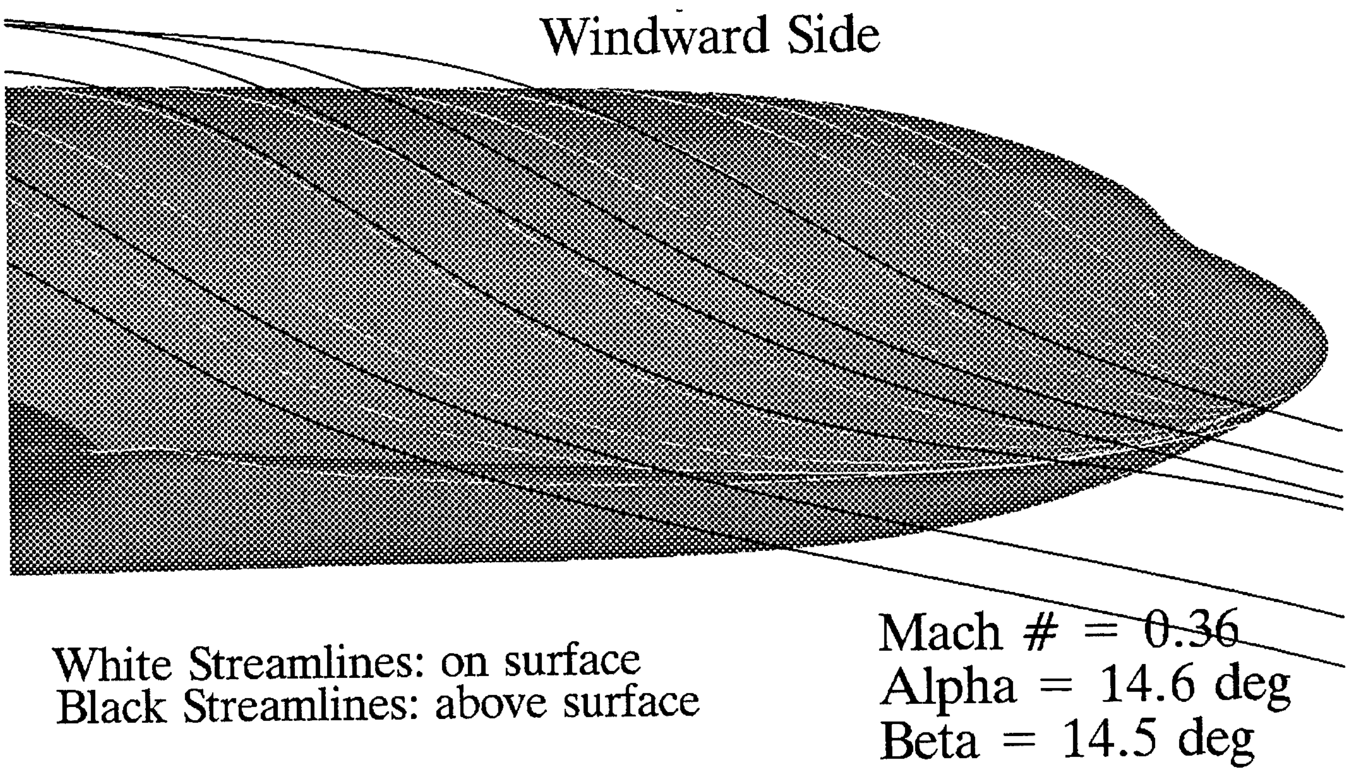


Figure 7: C-135 with Velocity Vectors on Surface (Leeward Side)

(Mach=0.36, Alpha=14.6 deg, Beta=14.5 deg)

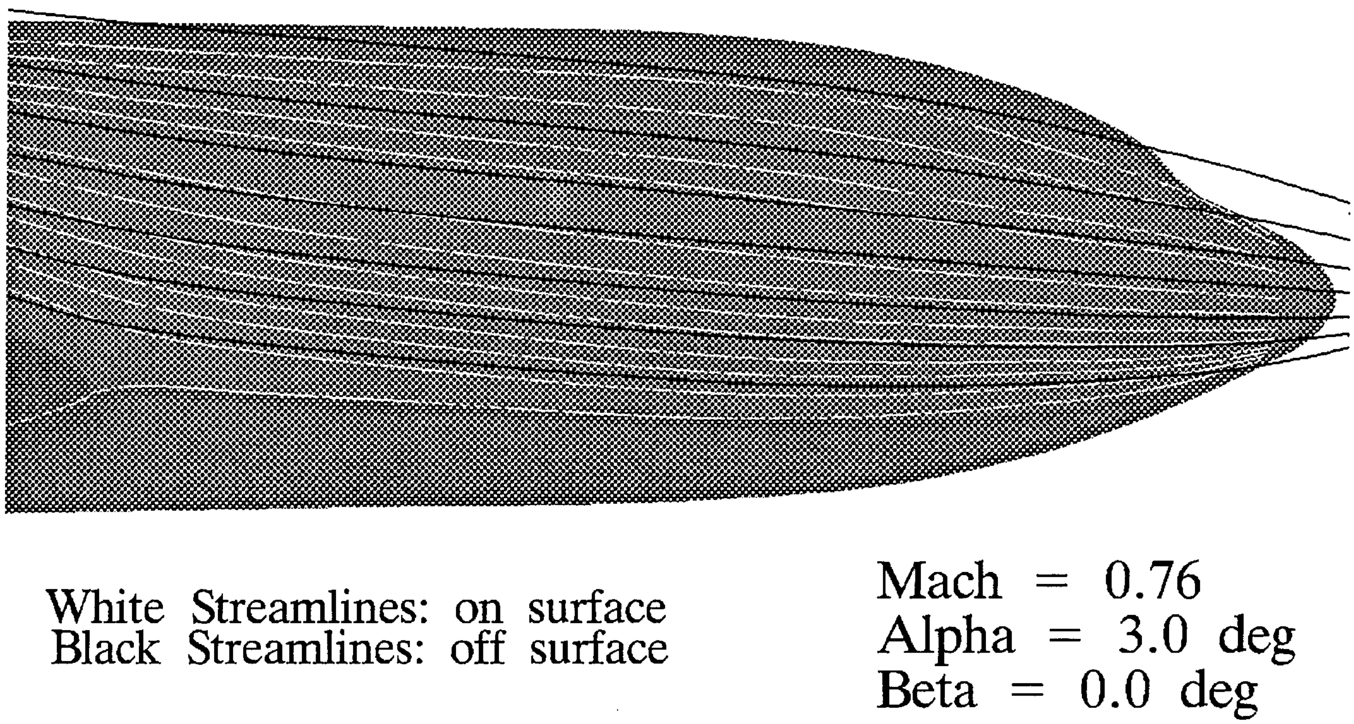


Figure 8: C-135 with Velocity Vectors on Surface

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.3 Particle Trace Plots for Dirty Aircraft

The Particle trace plots shown over the dirty aircraft in Figures 9 - 12 illustrate how the plate/pylon affects the flow over the aircraft. These plots should be used in conjunction with the pictures described in Section 6.4 to gain a better understanding of the air flow.

The particle traces shown in the following figures are plotted on the dirty aircraft in the region around the plate/pylon. The particles were released just upstream of the plate/pylon at a variety of heights and locations in an attempt to view the flow disturbance produced by the modification. Figures 9,10 and 12 show that the dirty flow produced by the plate/pylon swirls a little as it goes around the pylon and then passes under the horizontal stabilizer due to the downwash produced by the wing.

Figure 11 shows the particle traces which occur at severe angles of attack and sideslip. It appears that the flow wraps around the nose and fuselage without severe separation occuring on the plate. A vortical wake is produced off the trailing edge of the plate which passes outboard of the horizontal tail. Part of this wake also follows along the trailing edge of the wing. The lack of separated flow on the plate was initially surprising due to the amount of separated flow which appears on the leeward side of the vertical tail (see Figure 20). Two possible reasons for this lack of separation are the flow angle in the plate's proximity is significantly straightened by the presence of the fuselage, and/or the Euler formulation of the code did not capture the viscous effects which may cause separation.

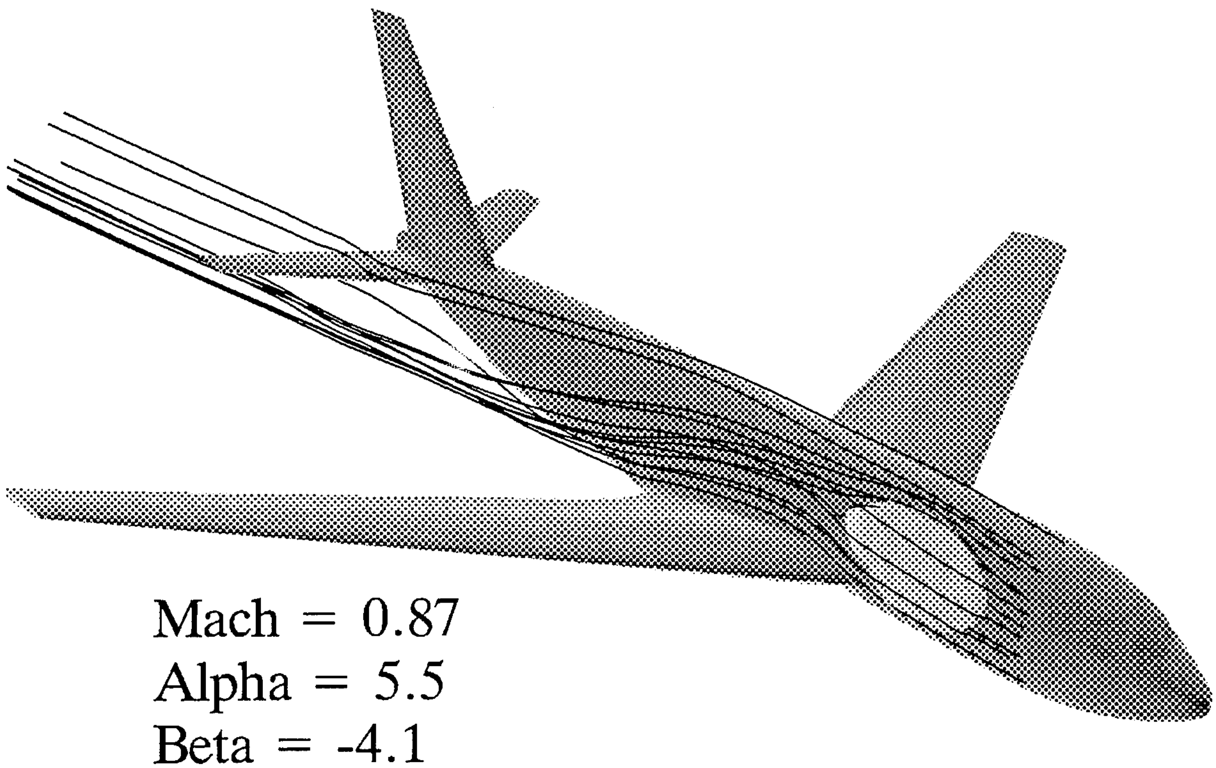


Figure 9: C-135 with Splitter Plate (Particle Traces)
(Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg)

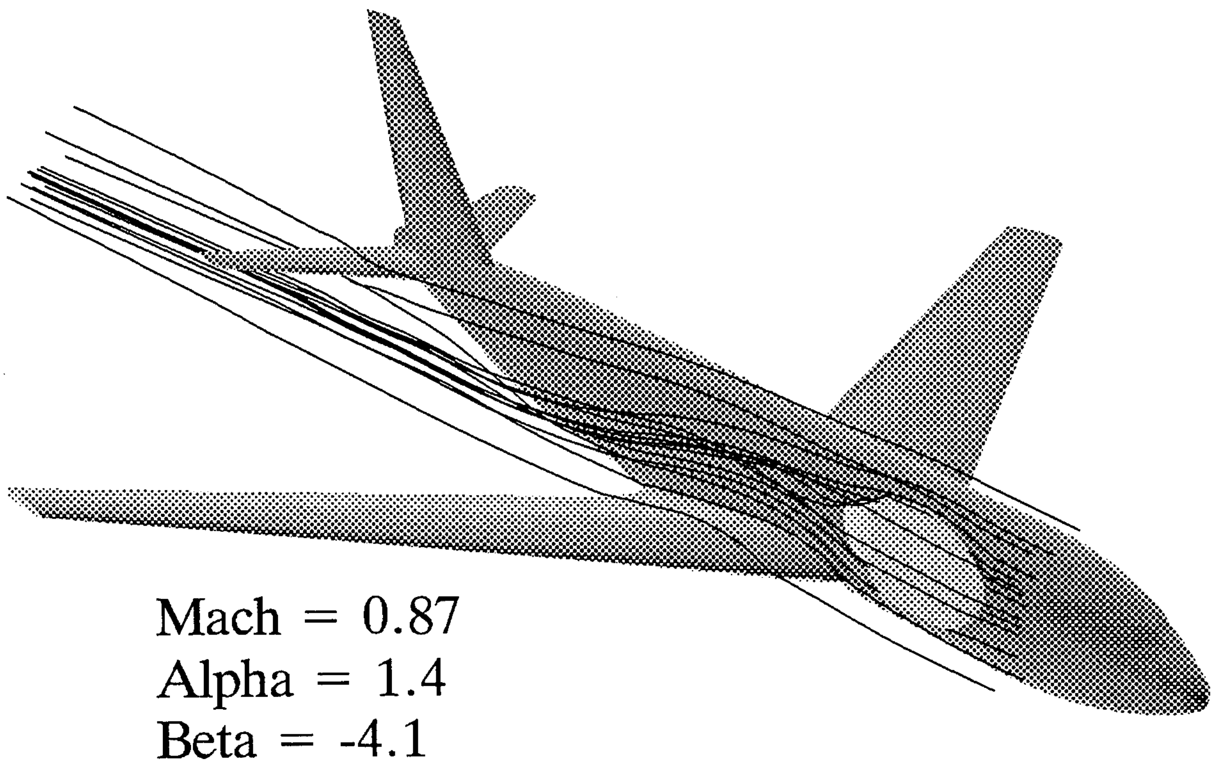


Figure 10: C-135 with Splitter Plate (Particle Traces)
(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

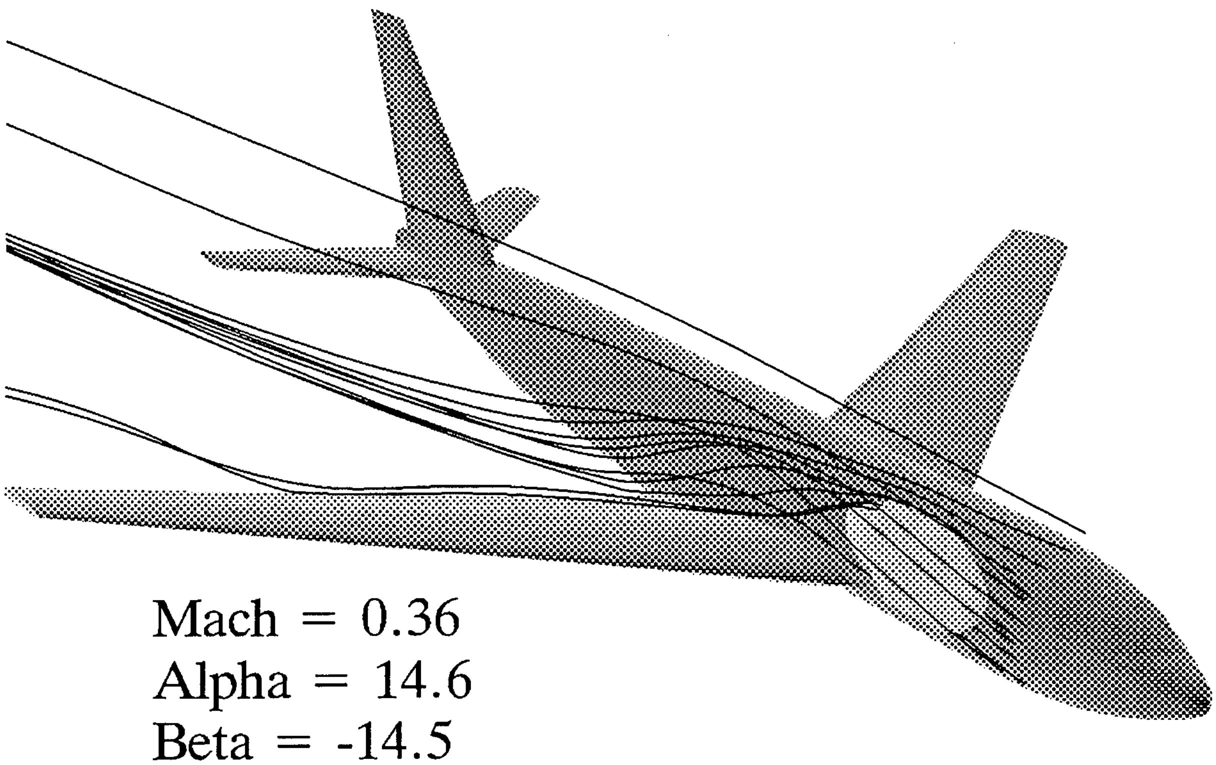


Figure 11: C-135 with Splitter Plate (Particle Traces)

(Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg)

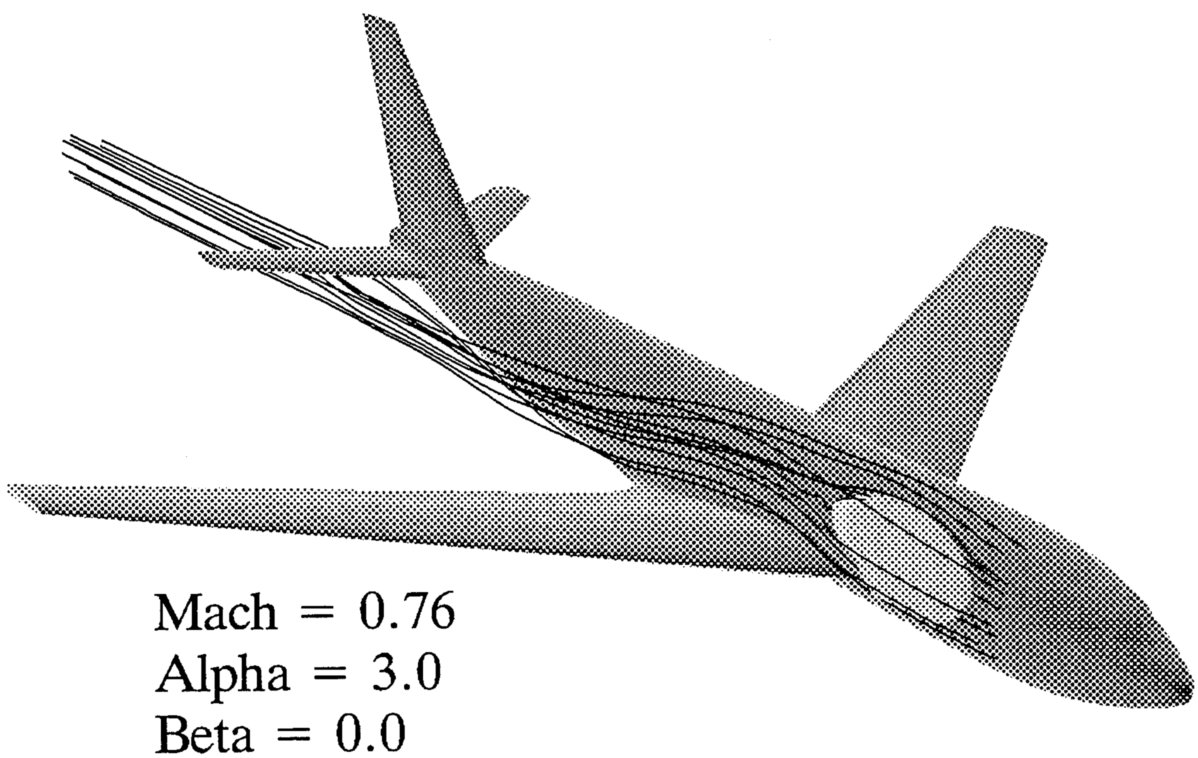


Figure 12: C-135 with Splitter Plate (Particle Traces)
(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.4 Mach Number Contour Plot on the Dirty Aircraft

The Mach number contour plots of the dirty configuration (Figures 13 - 23) illustrate the effects of mounting the plate/pylon. Note: the Mach number range differs on each plot to maximize the flow differentiation for each case.

The following plots contain two views of each dirty configuration run, and one view of the clean configuration where the flight conditions match. These plots should be used in conjunction with the previous particle trace plots to get a full picture of the flowfield. When viewing the contour plots the reader is reminded that for inviscid solutions of this type, peak Mach numbers tend to be higher with shocks occurring further aft.

6.4.1 Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg

The first pair of plots, Figures 13 and 14, show the Mach=0.87, Alpha=5.5 degrees, Beta=-4.1 degrees case. On these plots, one sees uneven shocks on the wings and the accelerated flow on the leeward side of the vertical tail. Both of these conditions are attributed to the presence of sideslip. Also visible is the acceleration that occurs on the plate where the front begins to droop and on the top of the elliptical pylon. The stagnation that occurs on the pylon just aft of the plate indicates a very thin layer of stagnant flow that is present due to the blunt trailing edge of the plate. The wing aft of the plate/pylon shows lower Mach numbers near the root which leads to the reduced lift and increased rolling moment that the aircraft experiences at these flight conditions.

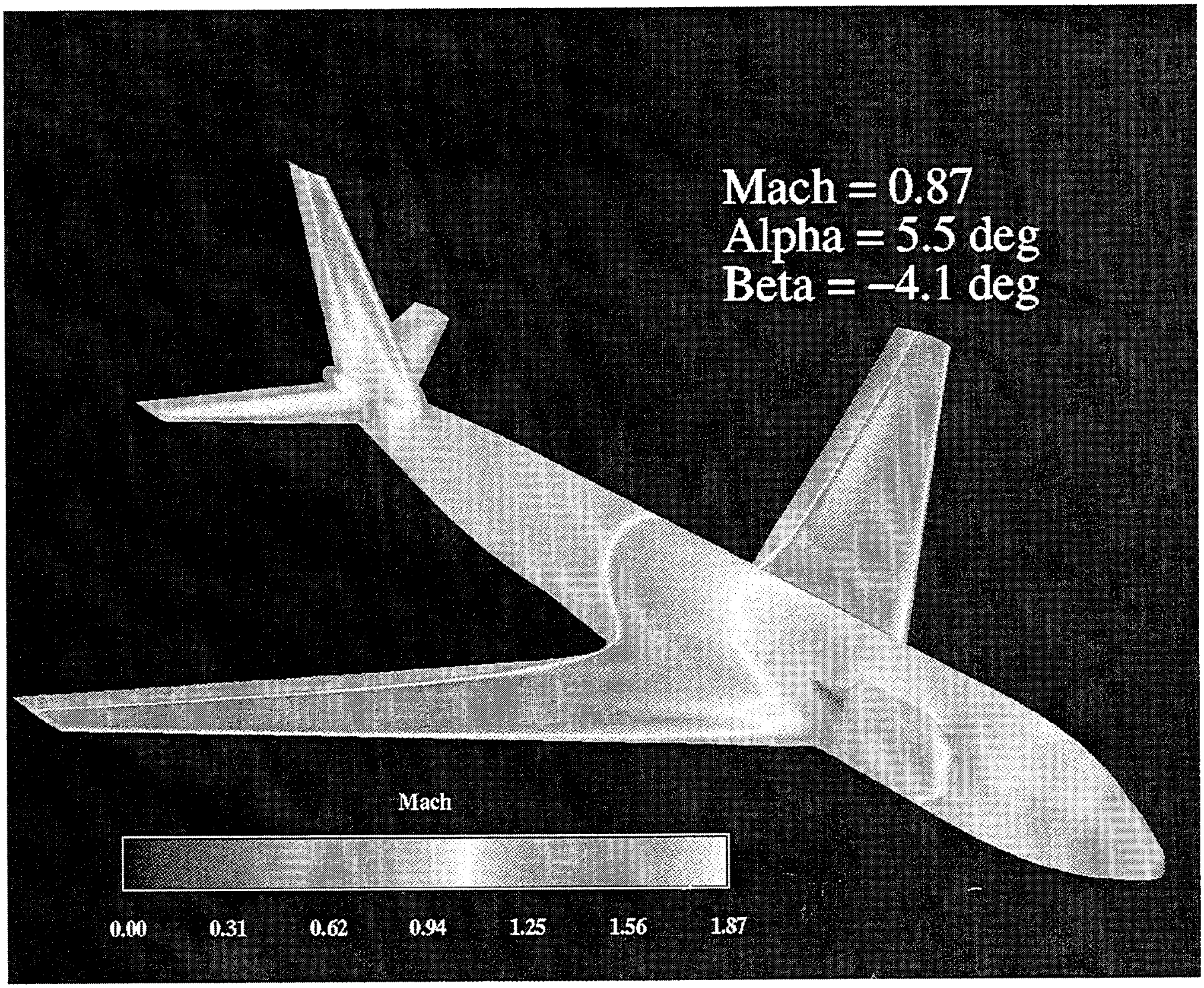


Figure 13: Dirty C-135 (Mach Contours)

(Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg)

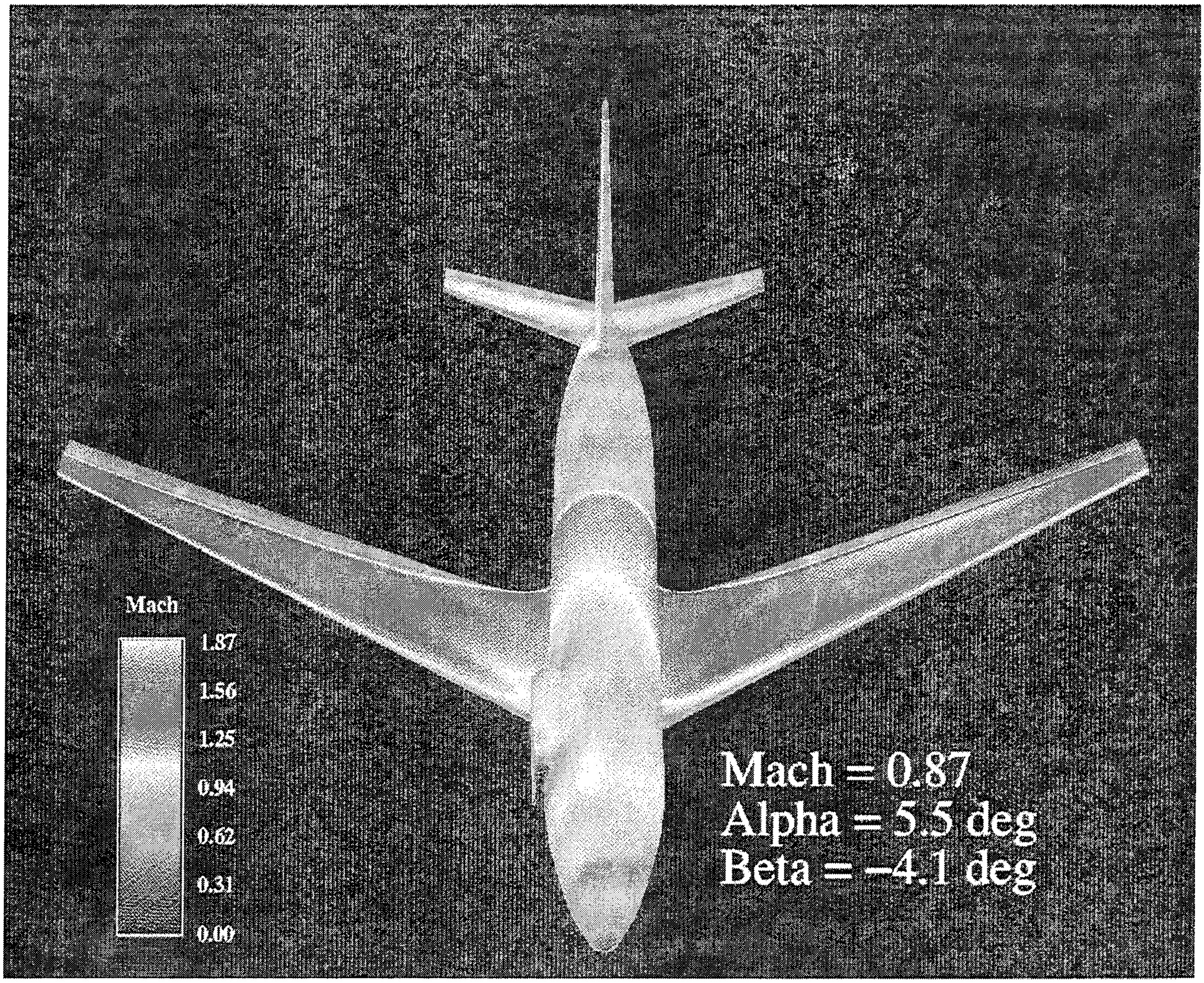


Figure 14: Dirty C-135 (Mach Contours, top view)
(Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg)

6.4.2 Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg

The next set of three plots, Figures 15-17, show the clean and dirty Mach=0.87, Alpha=1.4 degrees, Beta=-4.1 degrees cases. Comparison of Figures 15 and 16 illustrates the differences between the clean and dirty cases from a view above and forward of the aircraft.

The windward side of the aircraft and regions aft of the trailing edges experience negligible differences between the clean and dirty cases. The effect of the pylon in the dirty case includes increased Mach numbers on the top of the fuselage and reduced Mach numbers at the root of the leeward wing.

Figure 17 shows the side view where the top of the plate is visible. This view shows that the flow over the optical window region has a uniform Mach number. Additionally a weak shock is seen where the plate droops and a stagnation region is located aft of the plate's trailing edge.

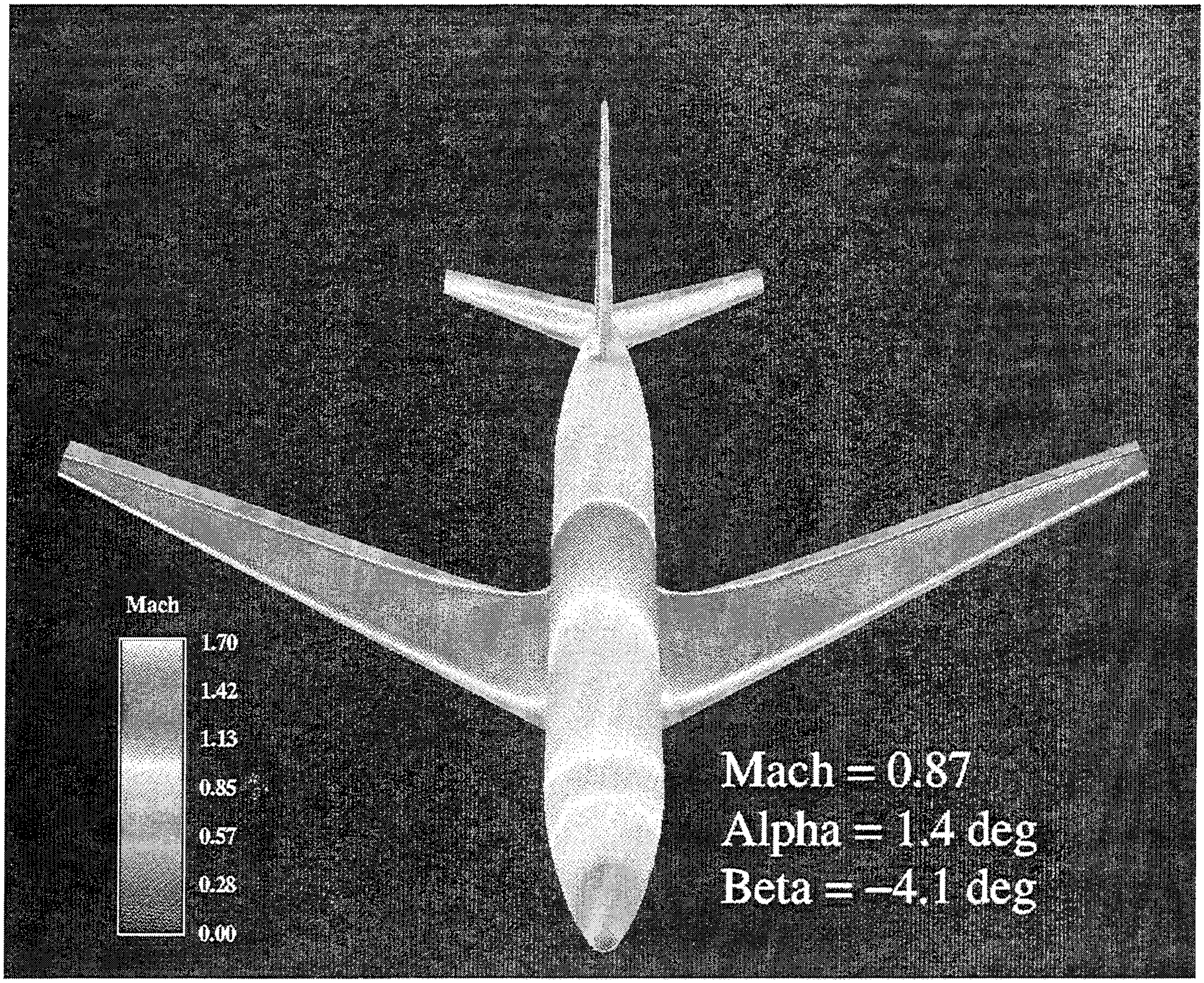


Figure 15: Clean C-135 (Mach Contours, top view)
(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

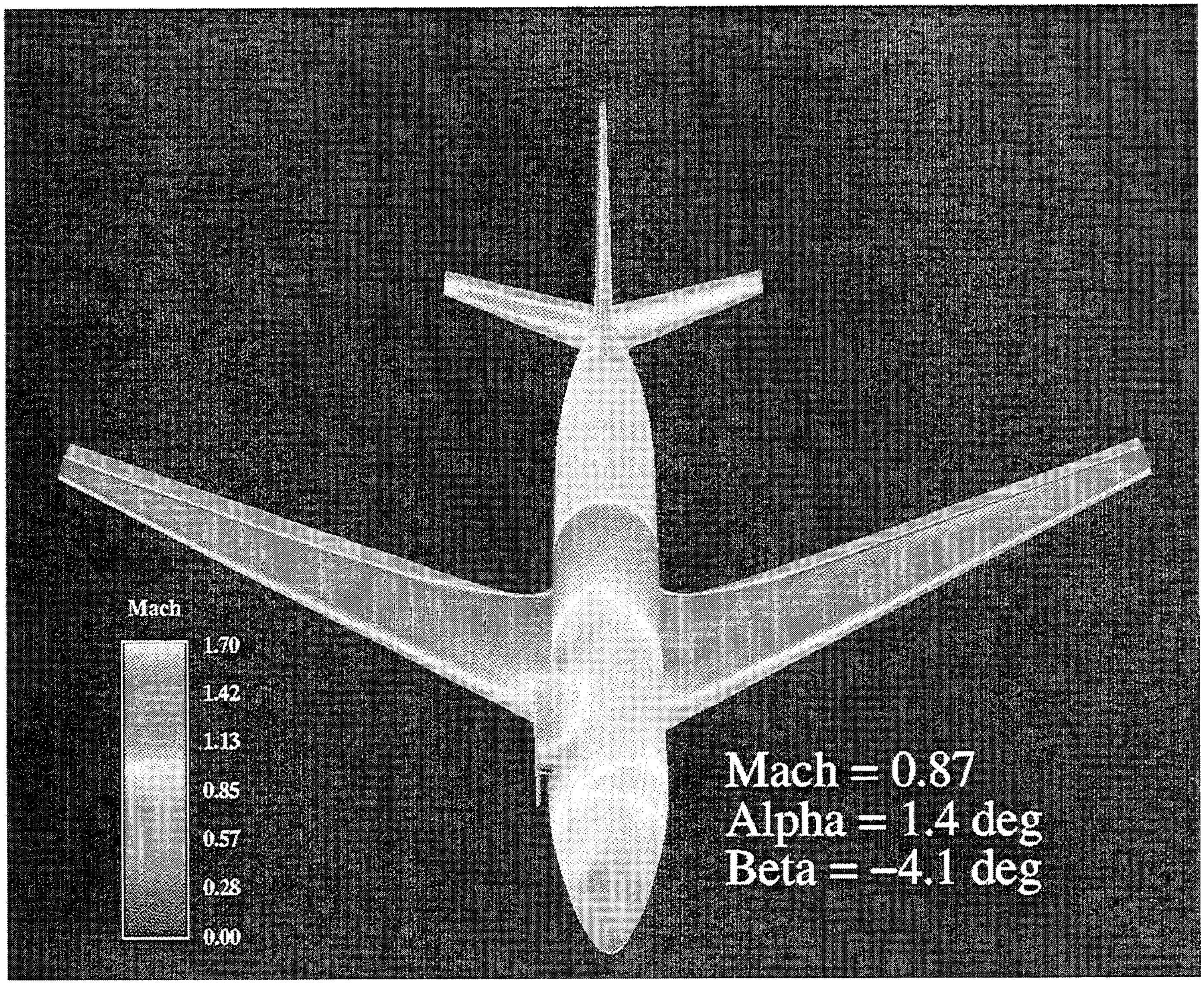


Figure 16: Dirty C-135 (Mach Contours, top view)
(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

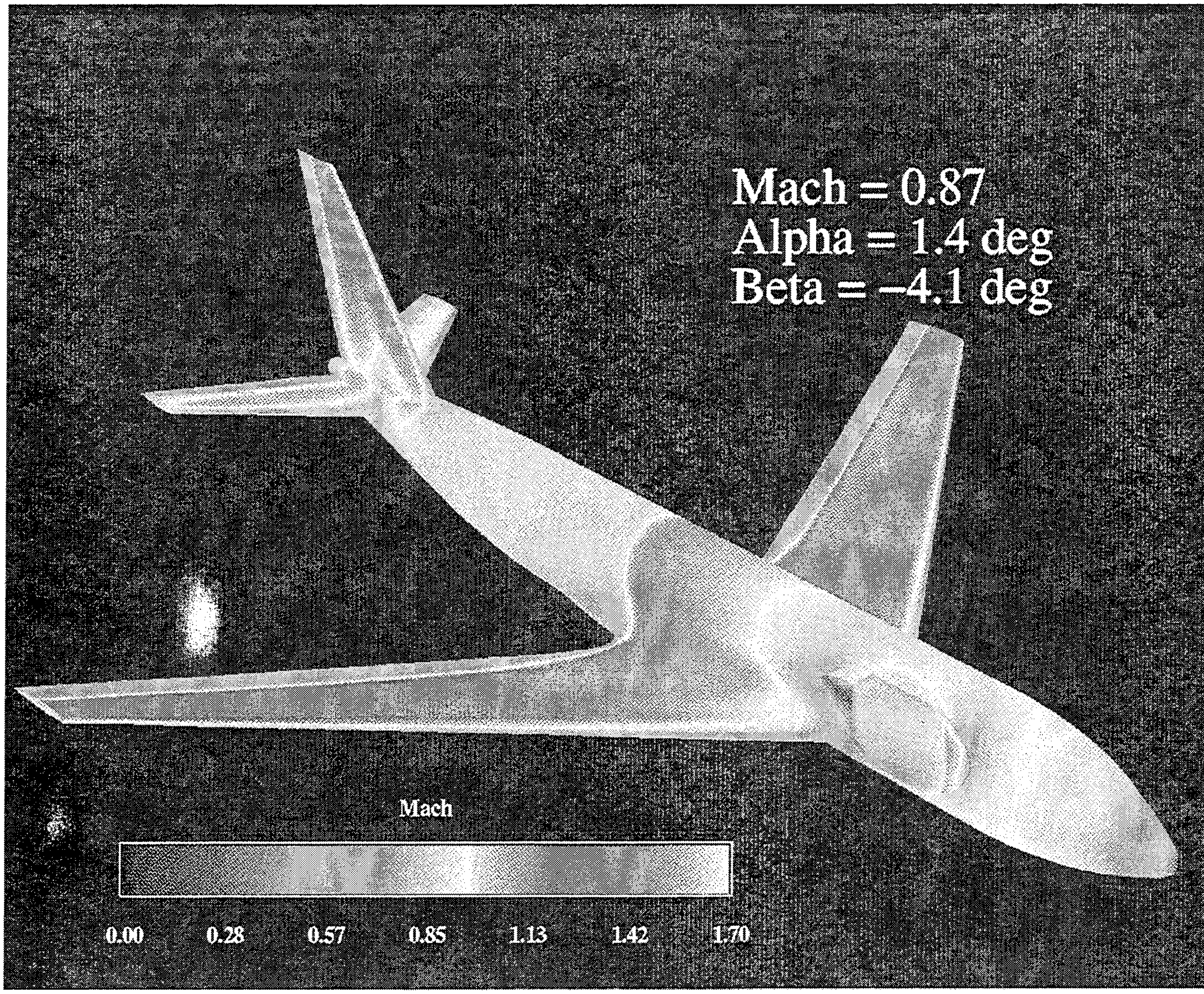


Figure 17: Dirty C-135 (Mach Contours)

(Mach=0.87, Alpha=1.4 deg, Beta=-4.1 deg)

6.4.3 Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg

In the next set of three plots, Figures 18-20, show the clean and dirty Mach=0.36, Alpha=14.6 degrees, Beta=-14.5 degrees cases. Comparisons of Figures 18 and 19 illustrate the differences between the clean and dirty cases from a view above and forward of the aircraft.

The windward side of the aircraft and regions aft of the trailing edges experience negligible differences between the clean and dirty cases. The effect of the pylon in the dirty case is somewhat localized in the fuselage region but extends out the leeward wing, as previously seen with the particle traces.

Figure 20 shows the side view where the top of the plate is visible. This view shows that the flow over the optical window region has a slightly nonuniform Mach number distribution. One must remember when viewing these data that optical measurements will not be taken during this severe flight condition.

Results from this flight condition should be viewed with a critical eye due to the severity of the flight conditions and the amount of separated flow that is produced.

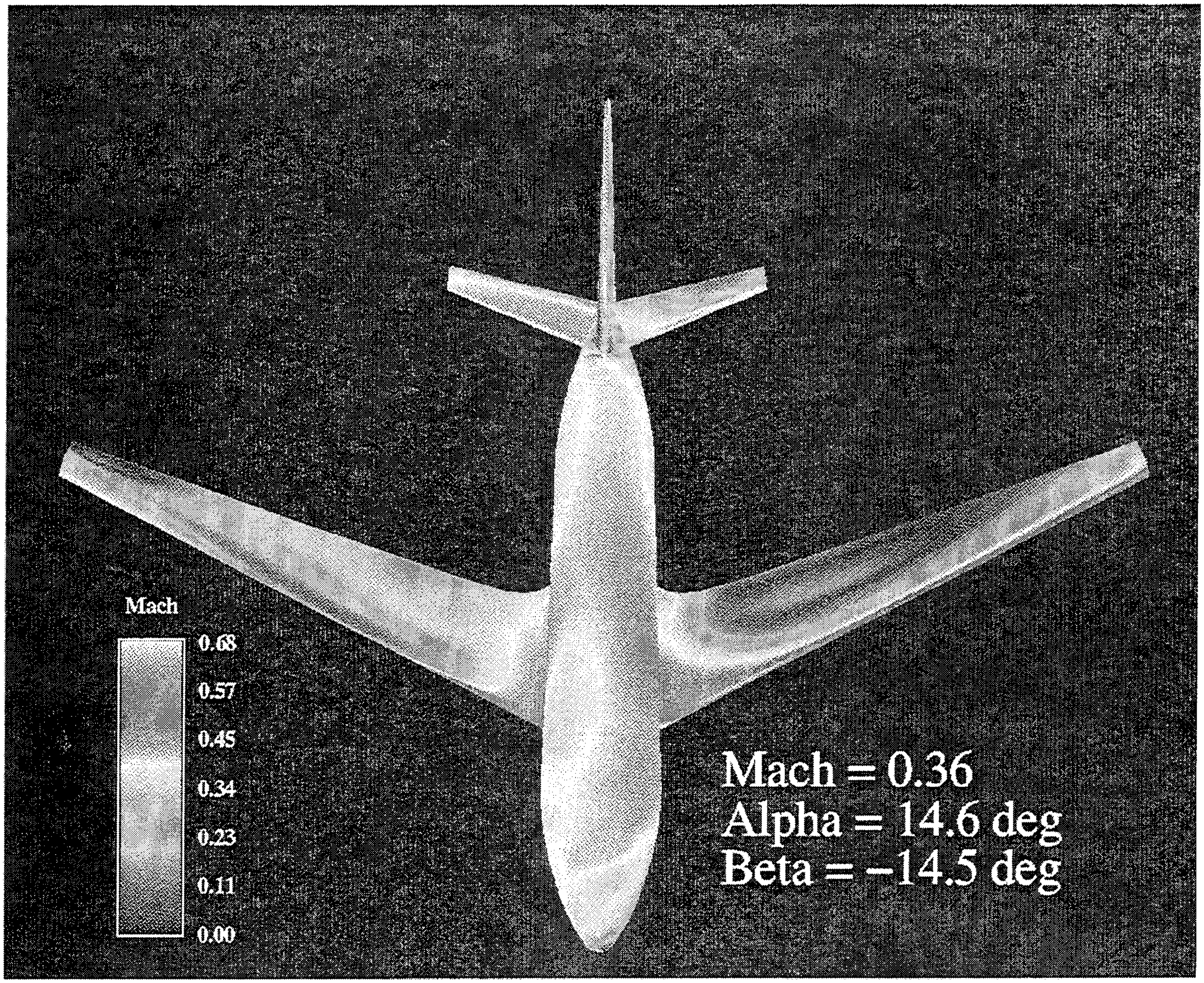


Figure 18: Clean C-135 (Mach Contours, top view)
(Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg)

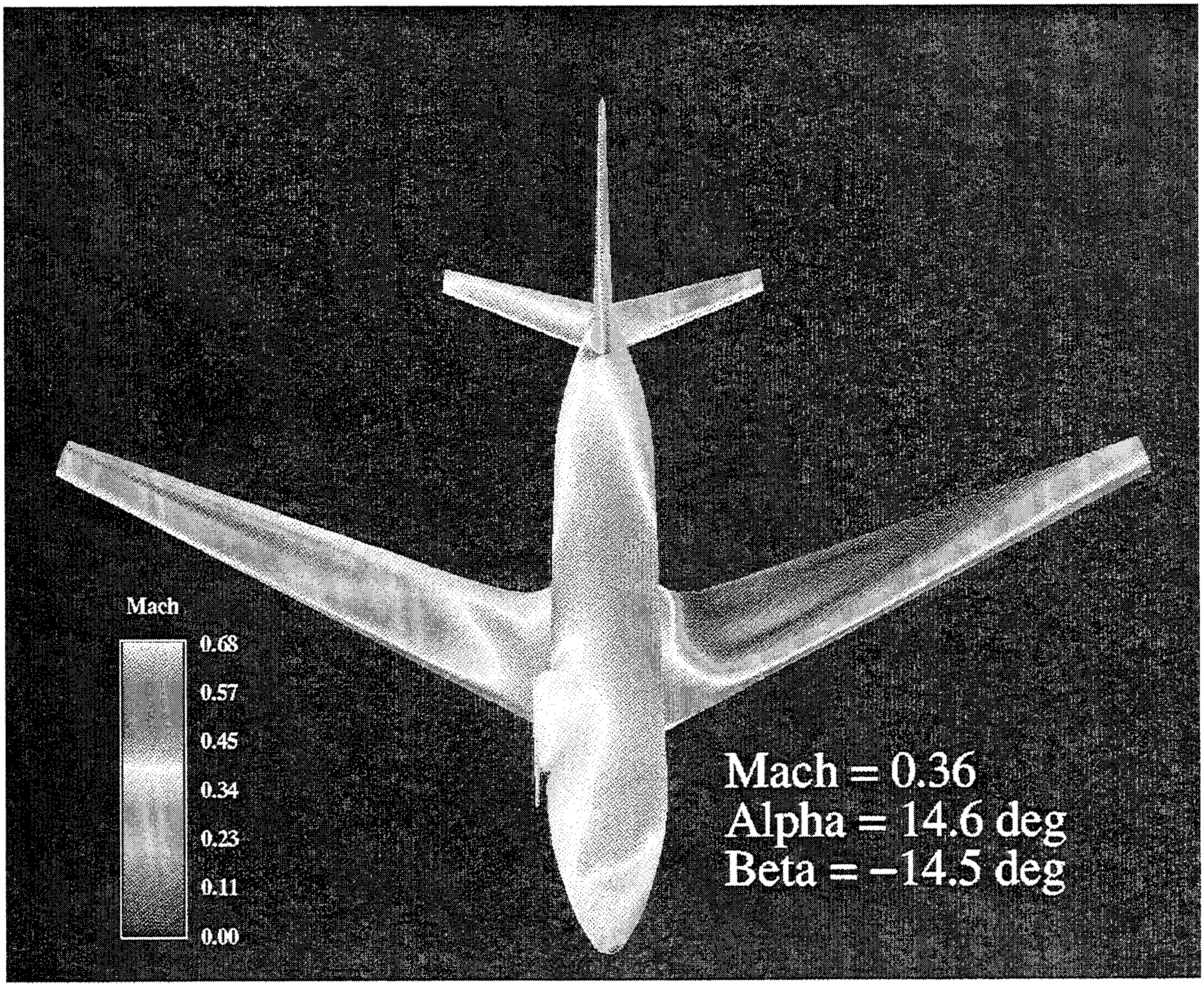


Figure 19: Dirty C-135 (Mach Contours, top view)

(Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg)

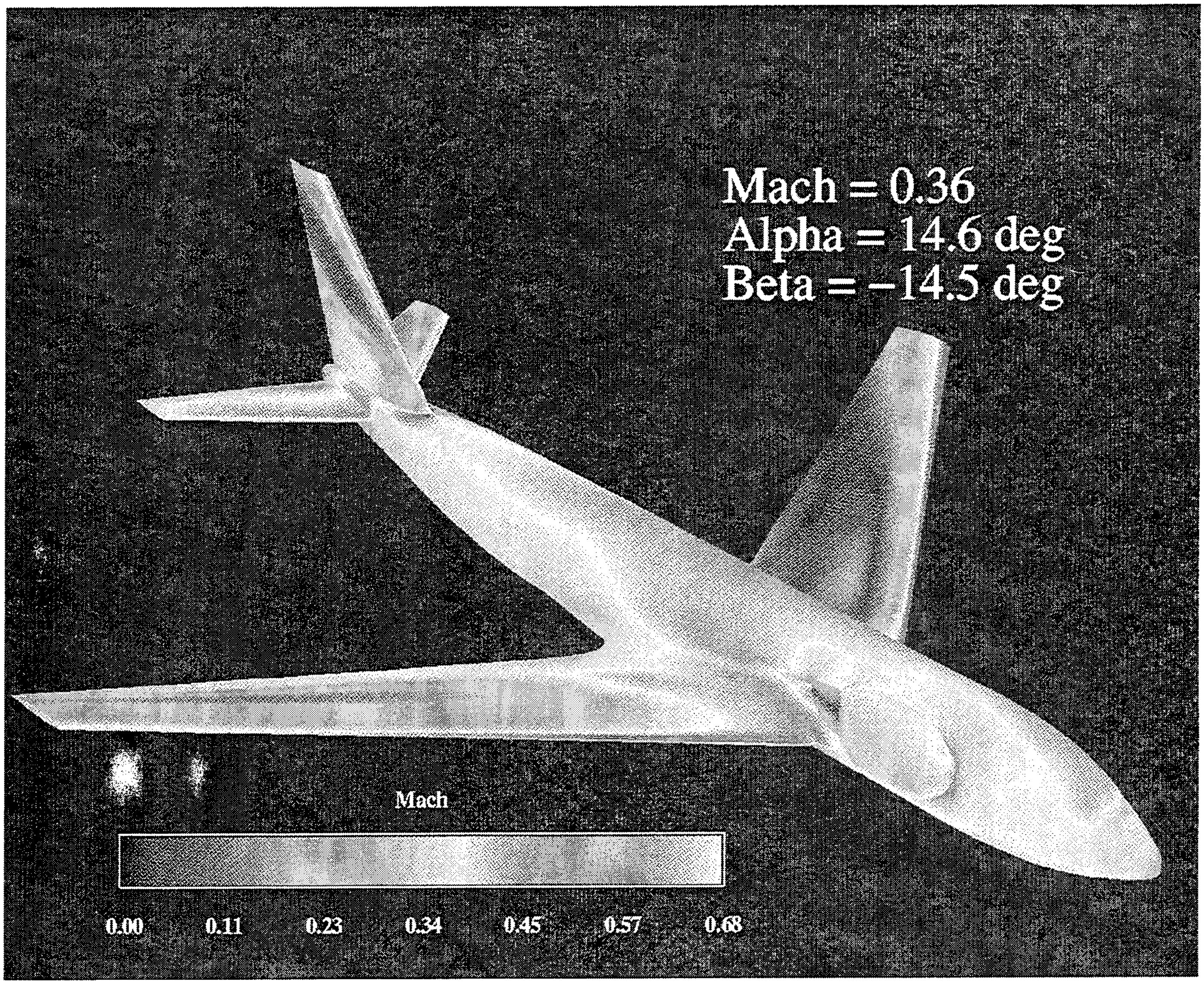


Figure 20: Dirty C-135 (Mach Contours)
(Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg)

6.4.4 Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg

In the next set of three plots, Figures 21-23, show the clean and dirty Mach=0.76, Alpha=3.0 degrees, Beta=0.0 degrees cases. Comparisons Figures 21 and 22 illustrate the differences between the clean and dirty cases from a view above and forward of the aircraft.

The windward side of the aircraft and regions aft of the trailing edges experience negligible differences between the clean and dirty cases. The effect of the pylon in the dirty case includes, increased Mach numbers on the top of the fuselage, reduced Mach numbers at the root of the wing (pylon side), and localized stagnations at the front and aft of the pylon.

Figure 23 shows the side view where the top of the plate is visible. Like previous plots, this view shows that the flow over the optical window region has a uniform Mach number distribution, the flow over the plate does not reach Mach 1, and that a stagnation aft of the plate is produced. (Figure 2 shows the position of the optical window in the plate.)

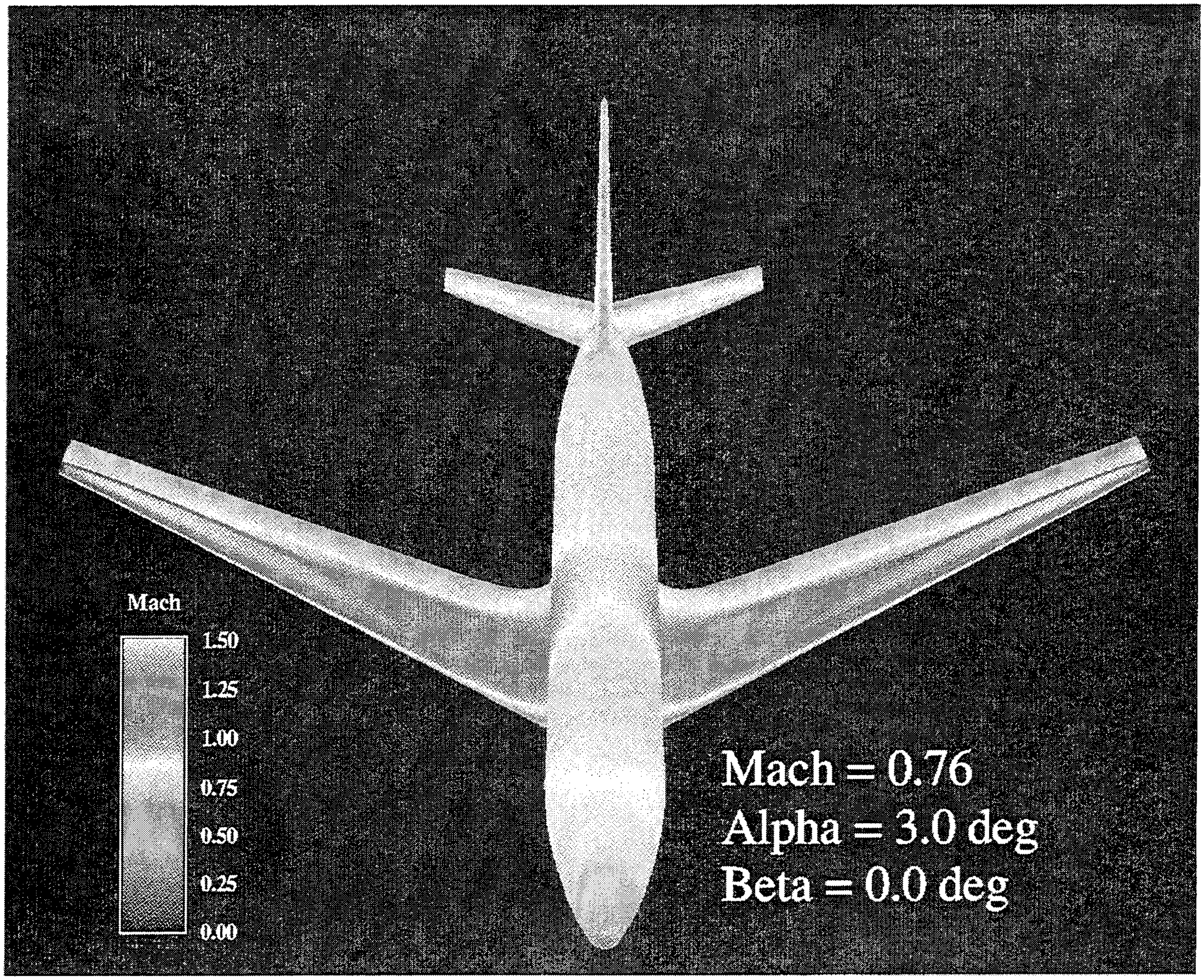


Figure 21: Clean C-135 (Mach Contours, top view)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

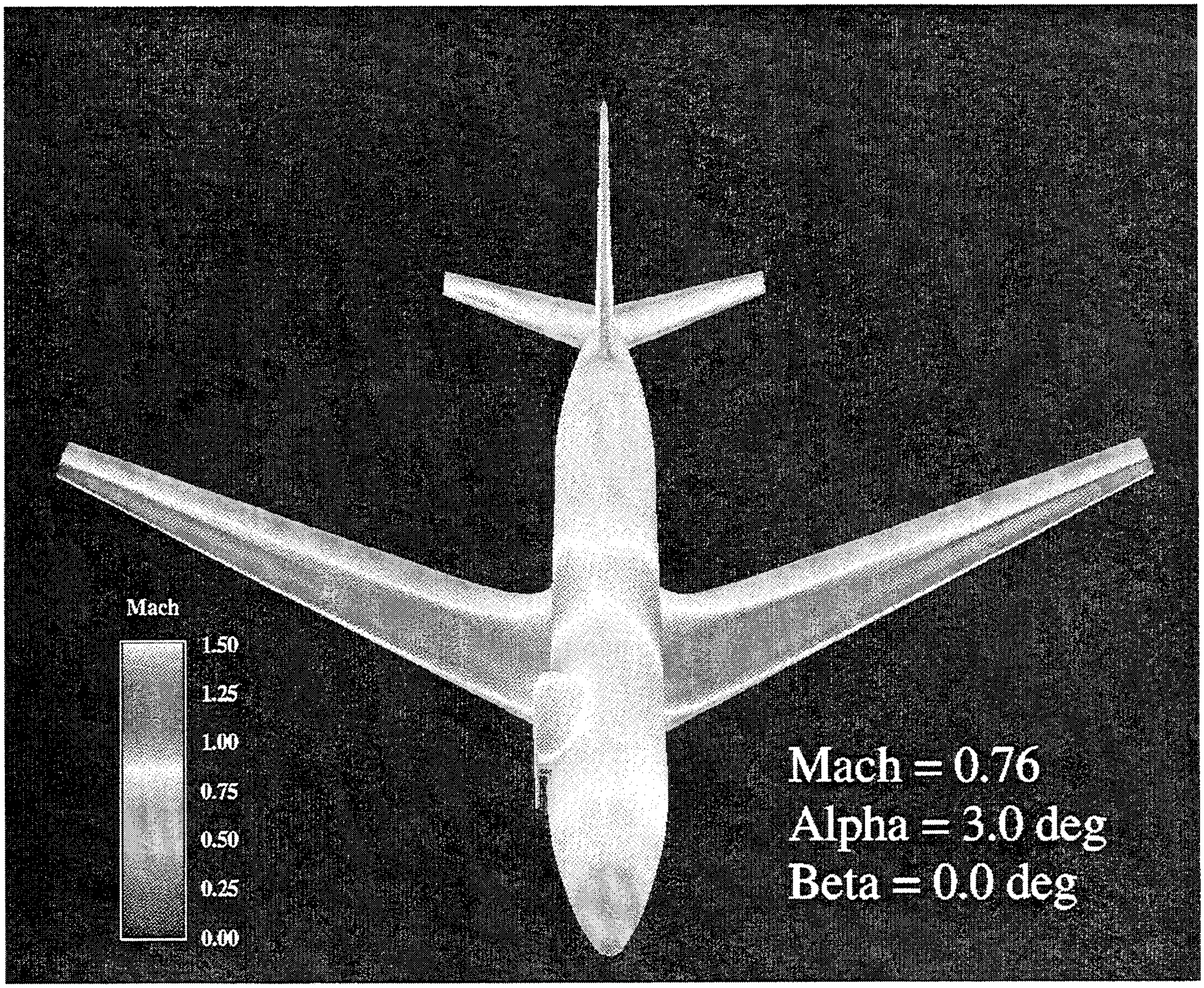


Figure 22: Dirty C-135 (Mach Contours, top view)
(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

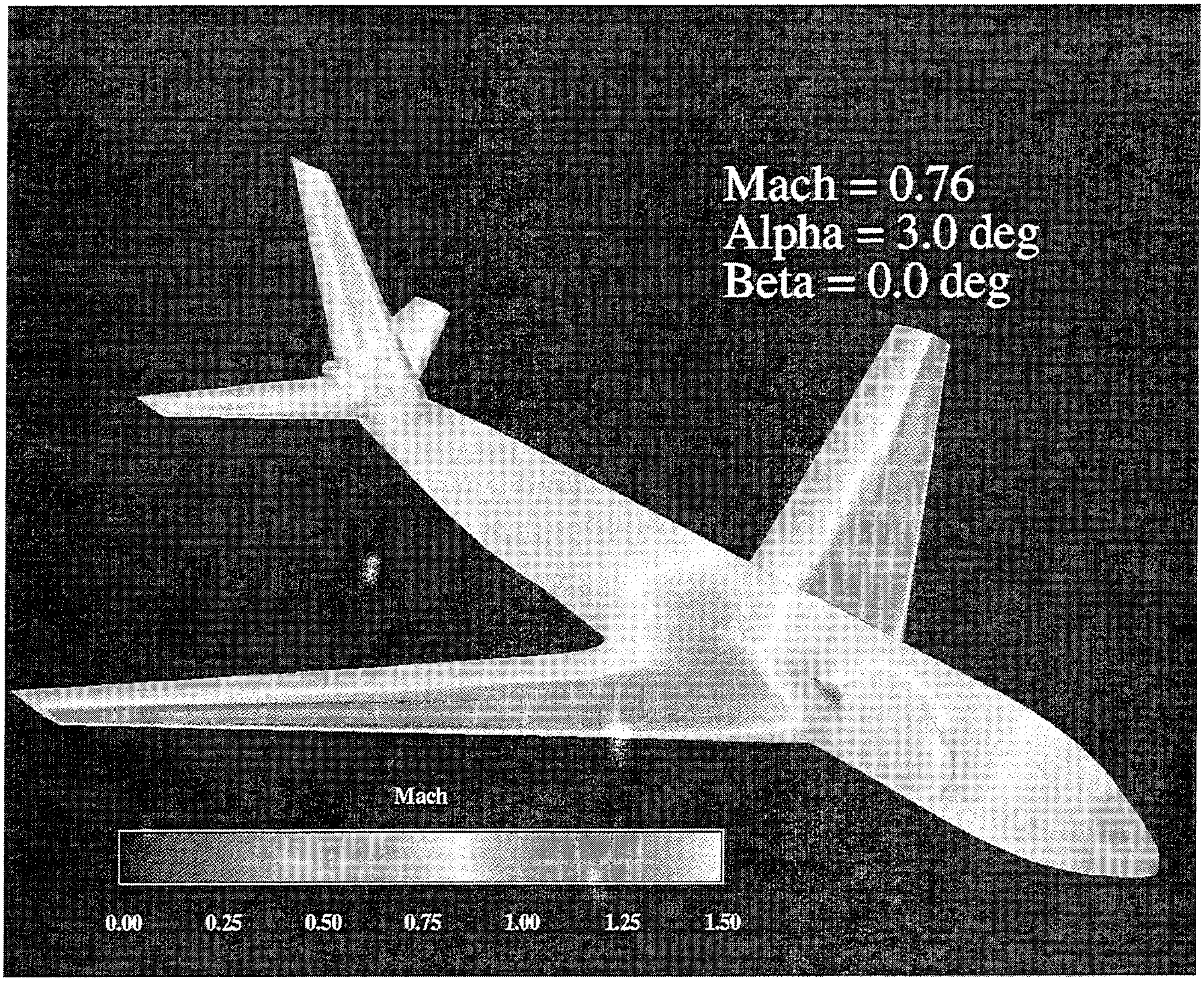


Figure 23: Dirty C-135 (Mach Contours)
(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.5 Pressure Coefficient Contour Plots on the Plate/Pylon

The pressure coefficient (Cp) contour plots on the plate/pylon shown in Figures 25 - 27 illustrate the aerodynamic loading. The plot for one case (Mach=0.87, Alpha=1.4, Beta= =-4.1) was omitted due to its similarity to the other Mach 0.87 case. Small differences do occur, but the tabulated Cp values offer a better comparison tool than the visual plot. Note: the Cp range differs on each plot to maximize the flow differentiation for each case.

For each of the three Cp plots, the plate/pylon assembly is shown from four different view points without the aircraft. Figure 24 is included below to clarify the orientation of each view.

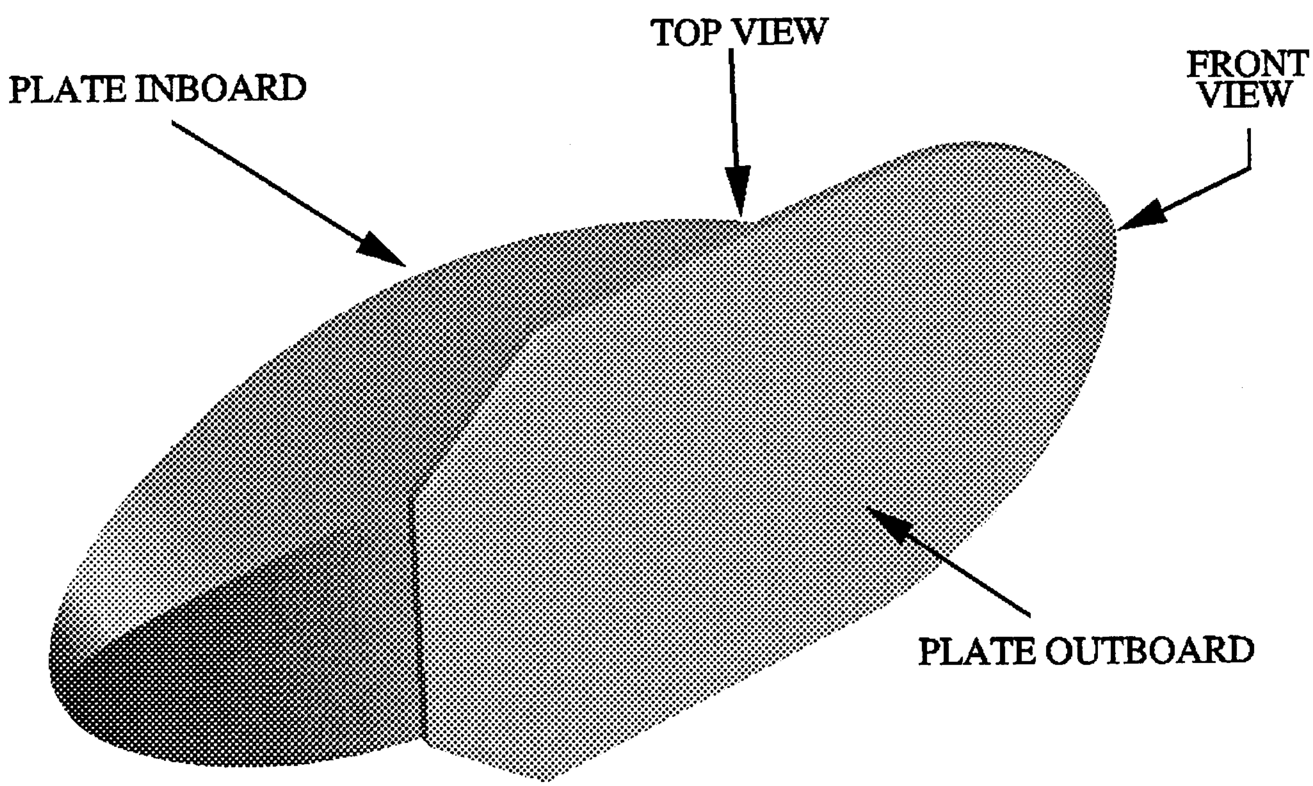


Figure 24: Splitter Plate and Pylon View Orientation

Figure 25 shows the splitter plate and pylon configuration for the Mach=0.87, Alpha=5.5 degrees, Beta=-4.1 degrees case. Flow stagnations are seen to occur on the leading edge of the plate and at the front and back of the elliptical pylon. Flow accelerations occur along the plate droop region and on the top and bottom of the pylon. These accelerated regions, indicated by the lower (more negative) Cps, are low pressure regions producing lift. A side force is produced by the combined low pressure on the outboard side of the plate and the high pressure on the inboard side. Due to the droop of the plate leading edge, the forces acting on the plate provide loads in the positive y and negative x axis directions with respect to the geometric coordinate system. As expected with an elliptical wing at angle of attack, the pressure distribution on the pylon indicates that lift is produced.

Figure 26 shows the Mach=0.36, Alpha=14.6 degrees, Beta=-14.5 degrees case. With the severity of the flight conditions, an unusual stagnation region is produced on the inboard side of the plate creating a fairly strong side force in the positive y-direction. Surprisingly, the flow on the outboard side of the plate does not appear to be separated and the distribution is uniform in the region of interest. Like the previous case the pylon acts as a lifting body at these flow conditions. It is expected that some separation would occur at this flight condition but the inviscid flow solver was unable to predict it.

Figure 27 shows the Mach=0.76, Alpha=3.0 degrees, Beta=0.0 degrees case. The Cp distribution shown in Figure 26 is very similar to the distribution shown in Figure 24. The Cp ranges of the two cases are different, however, the previous discussion holds for this case as well.

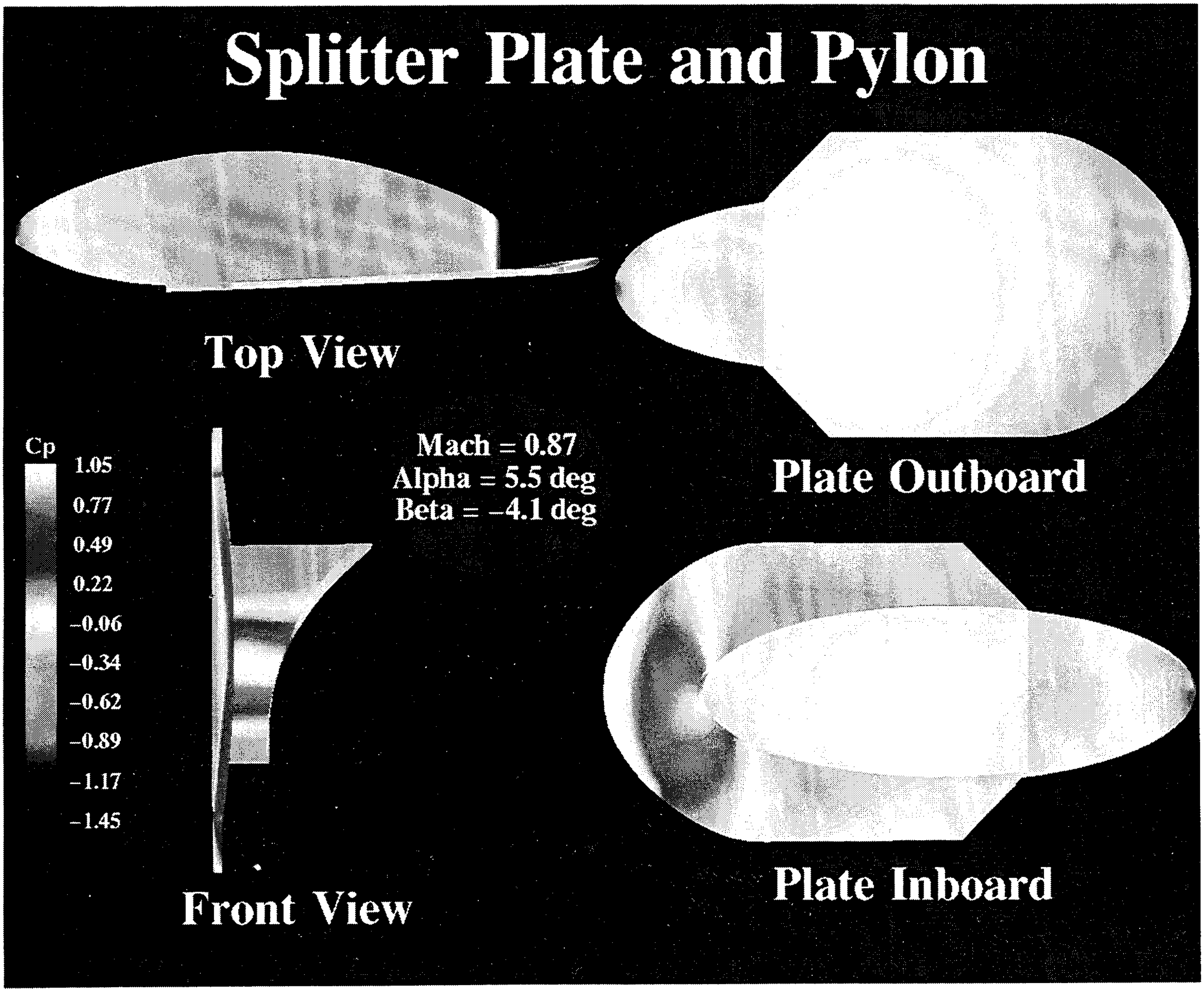


Figure 25: Splitter Plate and Pylon (Cp Contours)

(Mach=0.87, Alpha=5.5 deg, Beta=-4.1 deg)

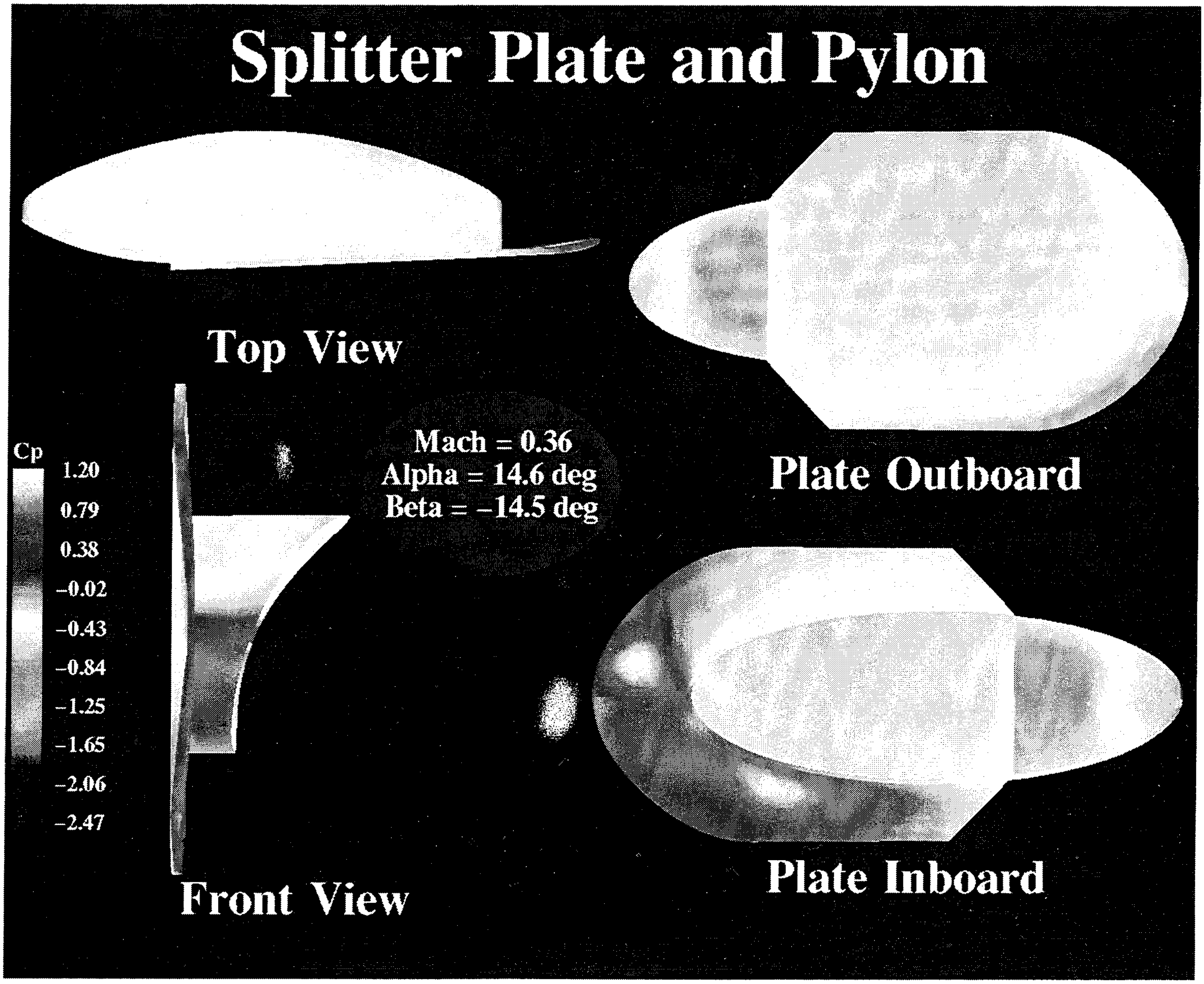


Figure 26: Splitter Plate and Pylon (Cp Contours)

(Mach=0.36, Alpha=14.6 deg, Beta=-14.5 deg)

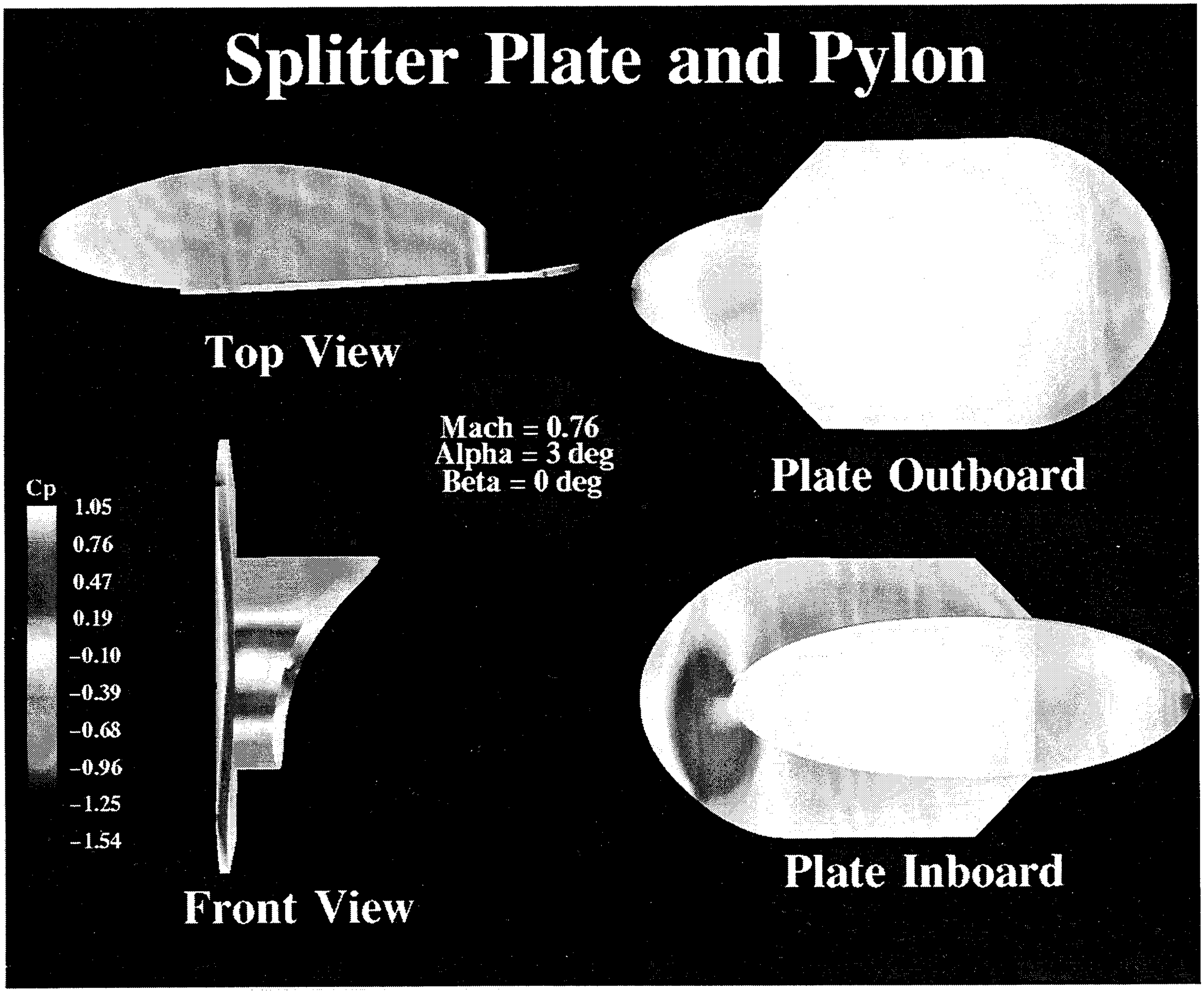


Figure 27: Splitter Plate and Pylon (Cp Contours)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.6 PLOT3D Solution Files

Solution files for all nine cases are available in PLOT3D format. These files can be used to extract additional information of interest. A picture only provides a snapshot of the results, while interactive viewing of the data provides a more complete insight into the results. (Interested parties should contact WL/FIMC for access to the solution files.)

6.7 Tabulated Cp Data on the Plate/Pylon

Tabulated Cp data on the plate/pylon for the four dirty cases is provided in the Appendix. This data was generated for conversion into loads data by the 4950TW. The table provides x, y, and z locations for each discrete panel center on the plate/pylon surfaces, the area of each panel, the unit normal components of each panel and the Cp at the centroid of each panel for the four dirty cases.

6.8 Cp Contour Plots on Symmetry Plane

Figures 28-29 illustrate two Cp contour plots on the symmetry plane of the clean aircraft. This data was generated for comparison with published data on the C-135 aircraft [5].

Figure 28 shows a side view of the flow at the aircraft symmetry plane for the Mach=0.76, Alpha=3.0 degree case. Visible are the stagnations at the nose, the canopy and the leading edge of the vertical tail. Also visible are the low pressure regions produced by the flow accelerating over the canopy and wing.

Figure 29 is a close-up of the nose region of the same case. The Cp range has changed to accentuate the flow features present. This plot was generated to answer some questions about positioning probes.

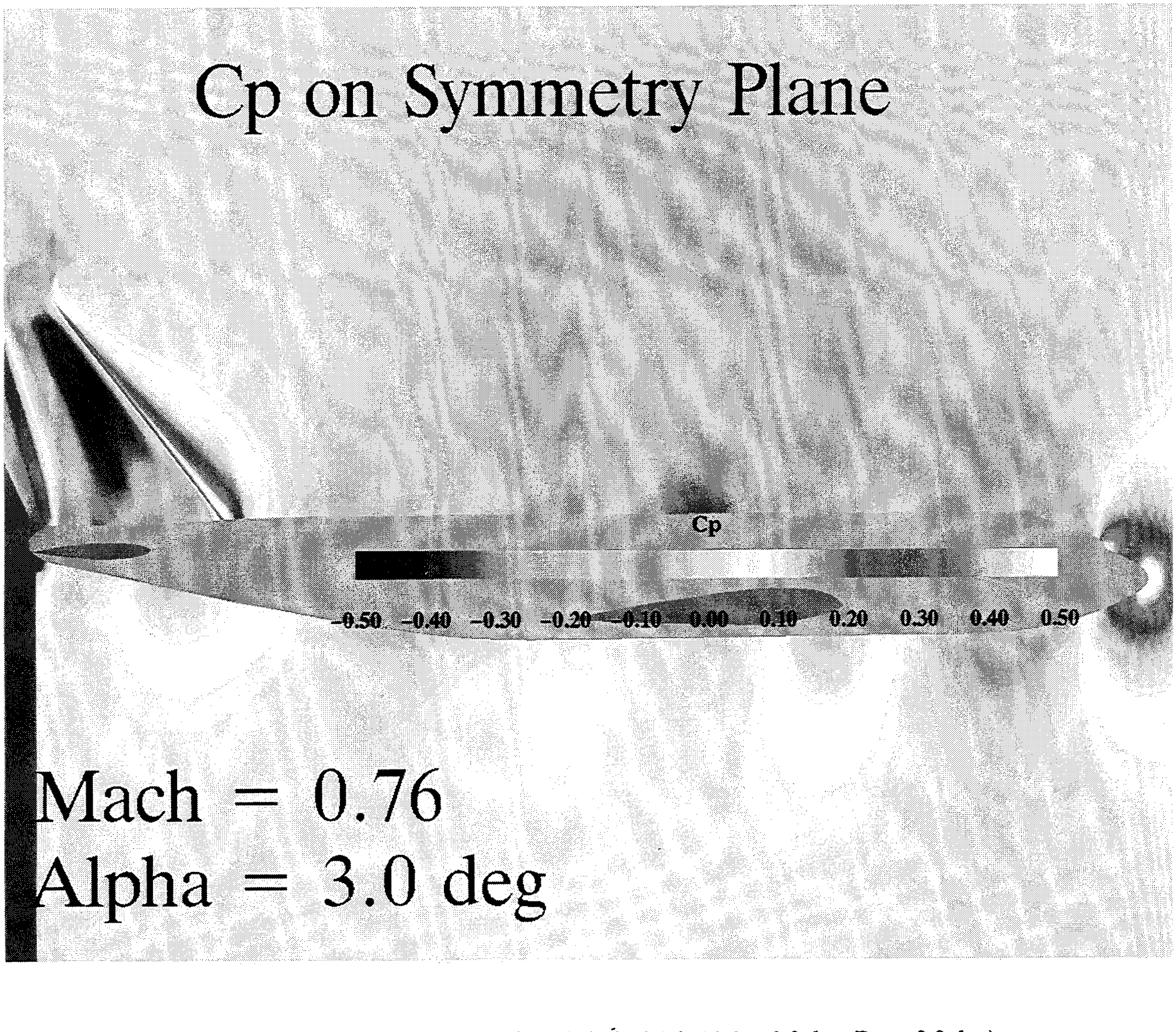


Figure 28: Cp on Symmetry Plane (Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

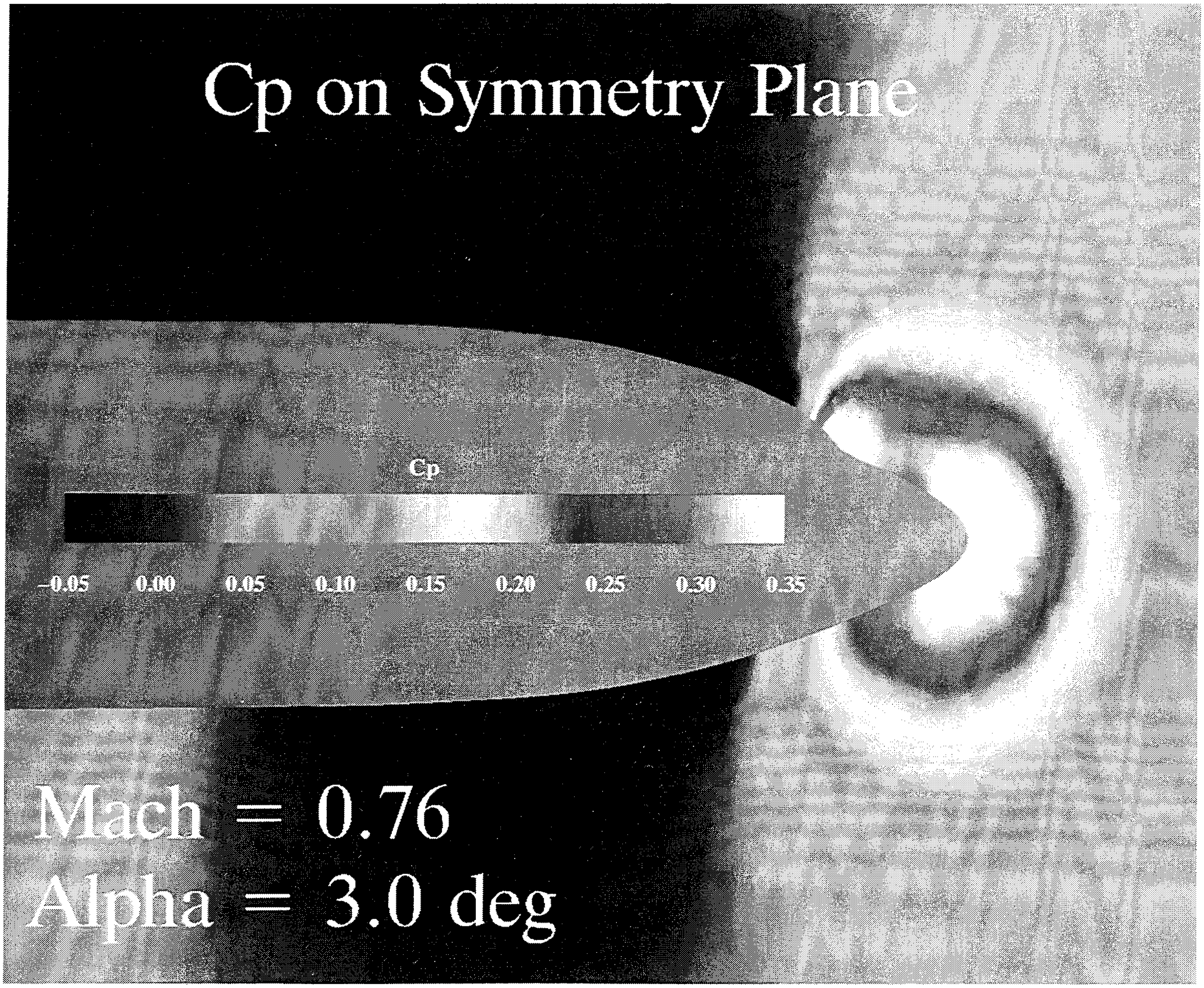


Figure 29: Cp on Symmetry Plane (Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.9 Fuselage X-station Plots

Plots of Cp vs. X-station and Mach number vs. X-station are provided along the clean configuration centerline in Figures 30 - 33. These plots provide data on both the top and bottom of the fuselage for the reader's convenience.

Cp vs. X-station (fuselage top centerline)

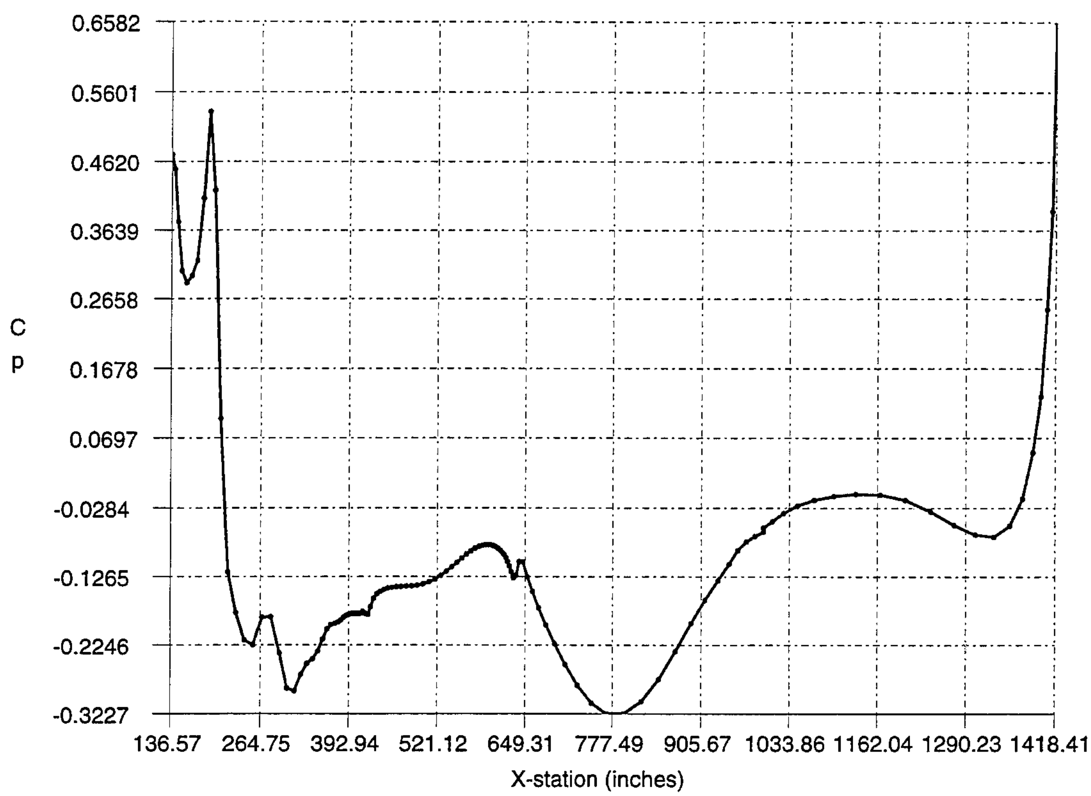


Figure 30: Cp vs. X-station (fuselage top centerline)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

Cp vs. X-station (fuselage bottom centerline)

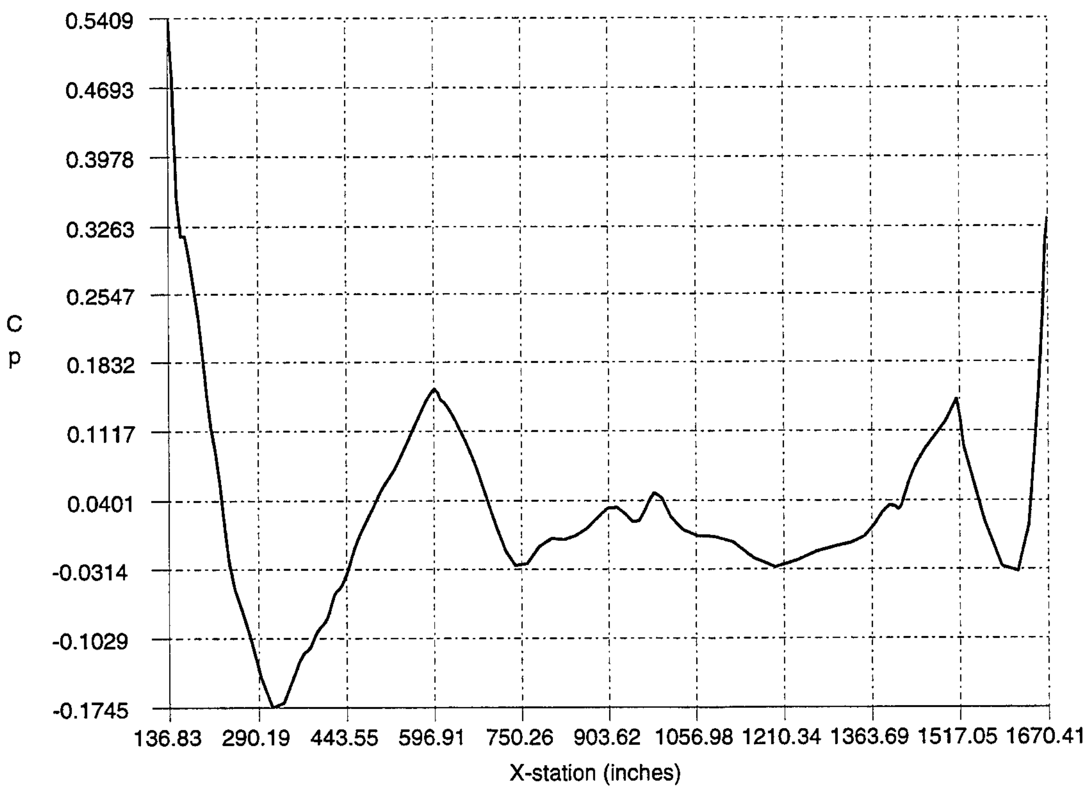


Figure 31: Cp vs. X-station (fuselage bottom centerline)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

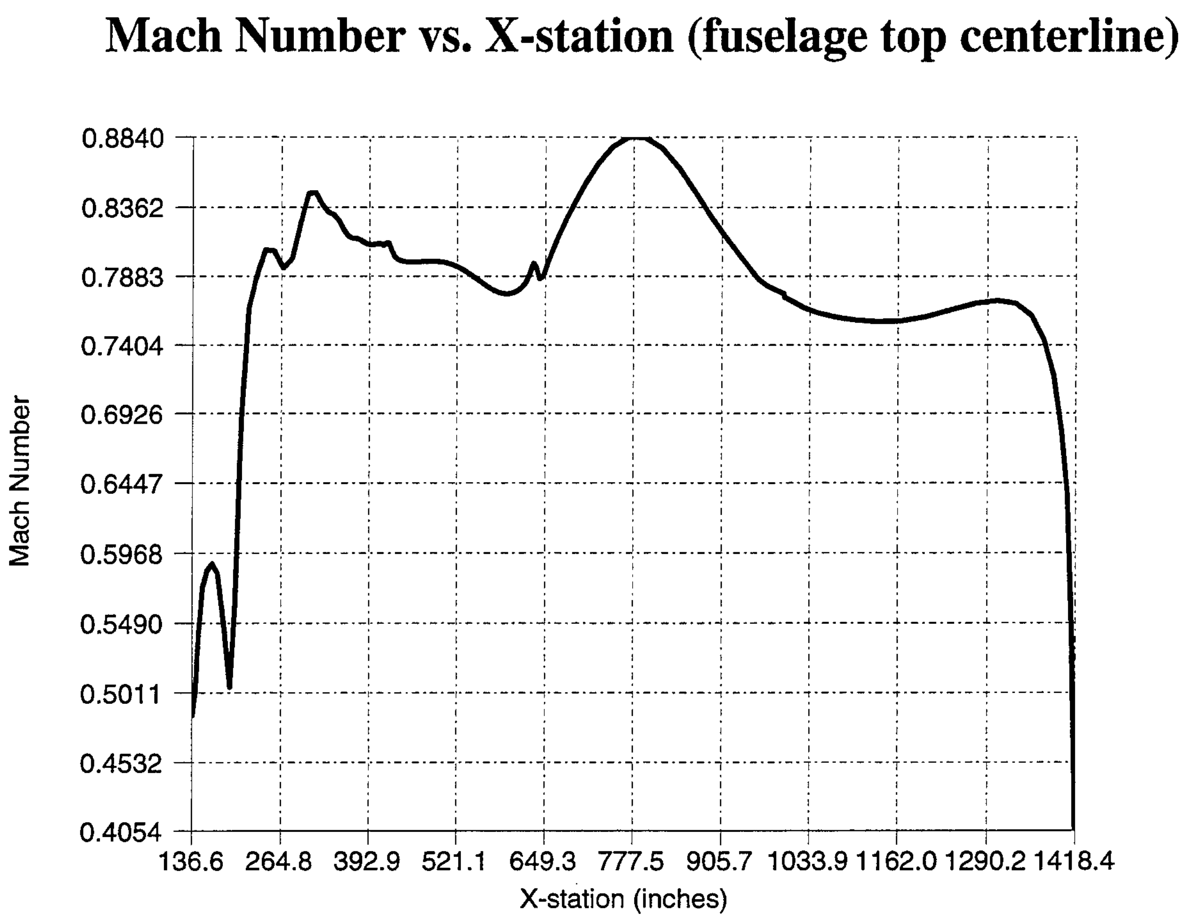


Figure 32: Mach Number vs. X-station (fuselage top centerline)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

Mach Number vs. X-station (fuselage bottom centerline)

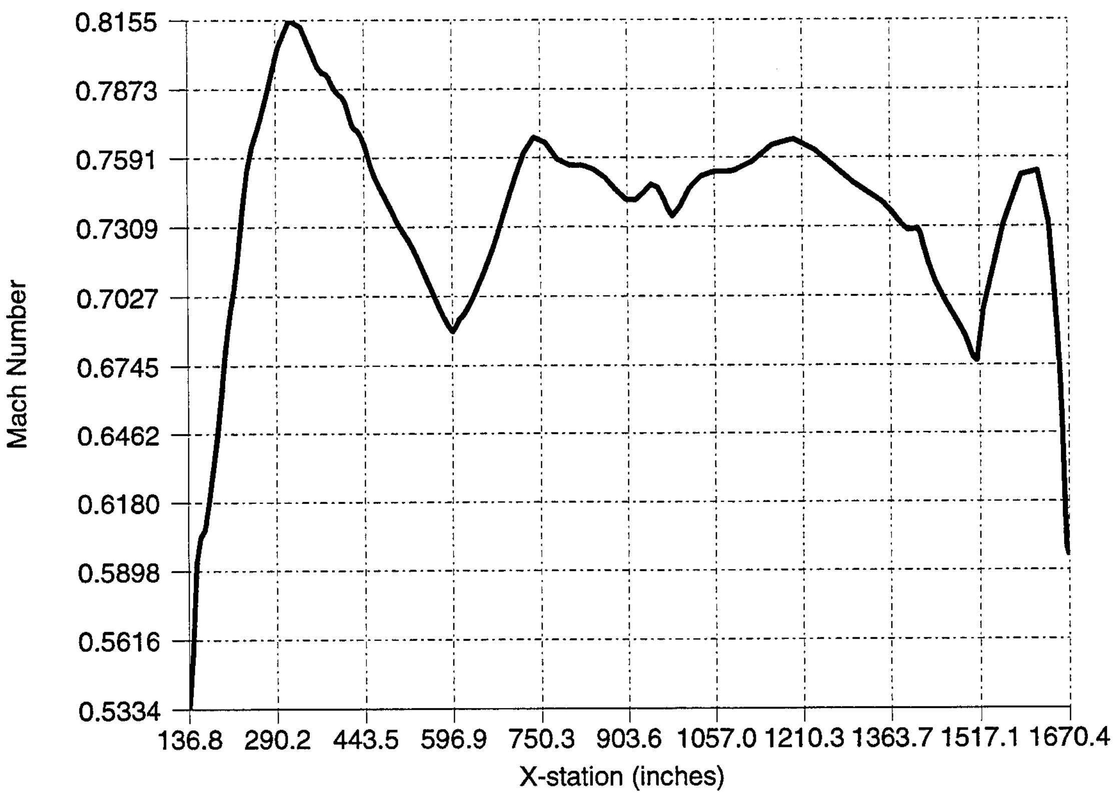


Figure 33: Mach Number vs. X-station (fuselage bottom centerline)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.10 Plate X-station Plots

Plots of Cp vs. X-station and Mach number vs. X-station are provided along the centerline of the plate for the Mach = 0.76 case. Figures 34 and 35 show wind tunnel results and are provided for comparison.

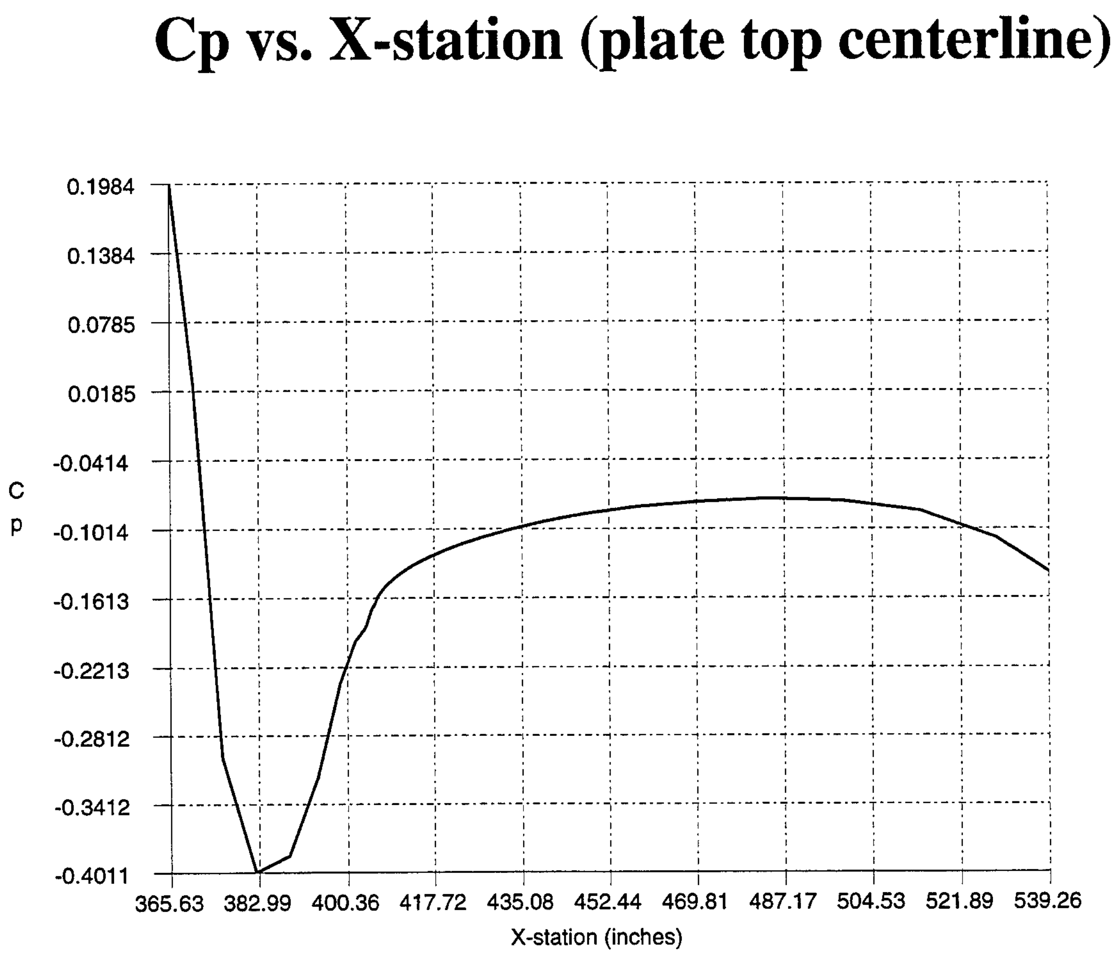


Figure 34: Cp vs. X-station (plate top centerline)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

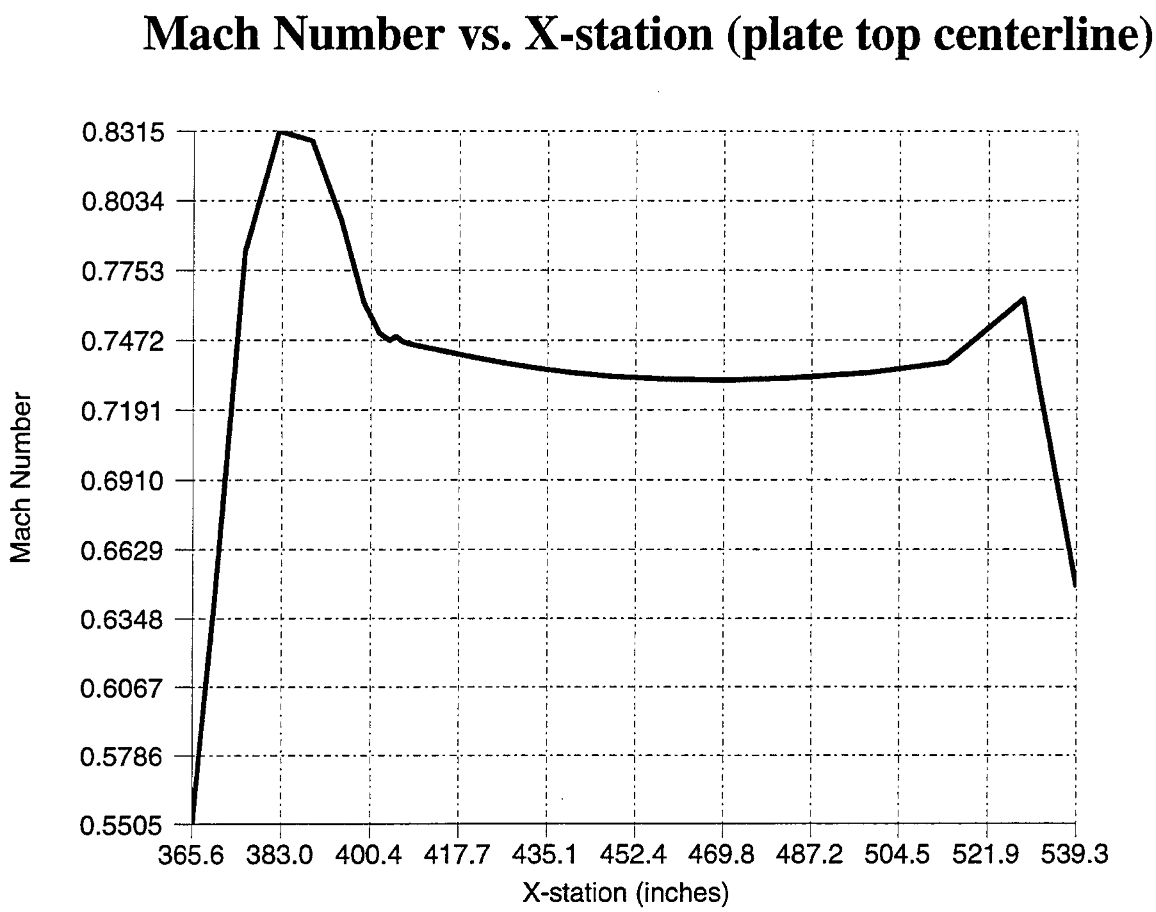


Figure 35: Mach Number vs. X-station (plate top centerline)

(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

6.11 Particle Trace Plot

The streamlines for the Mach = 0.76 case are plotted to illustrate the particle paths near the nose of the C-135. The position listed on the plot in Figure 36 is of interest to the ABL SPO due to an instrument probe location.

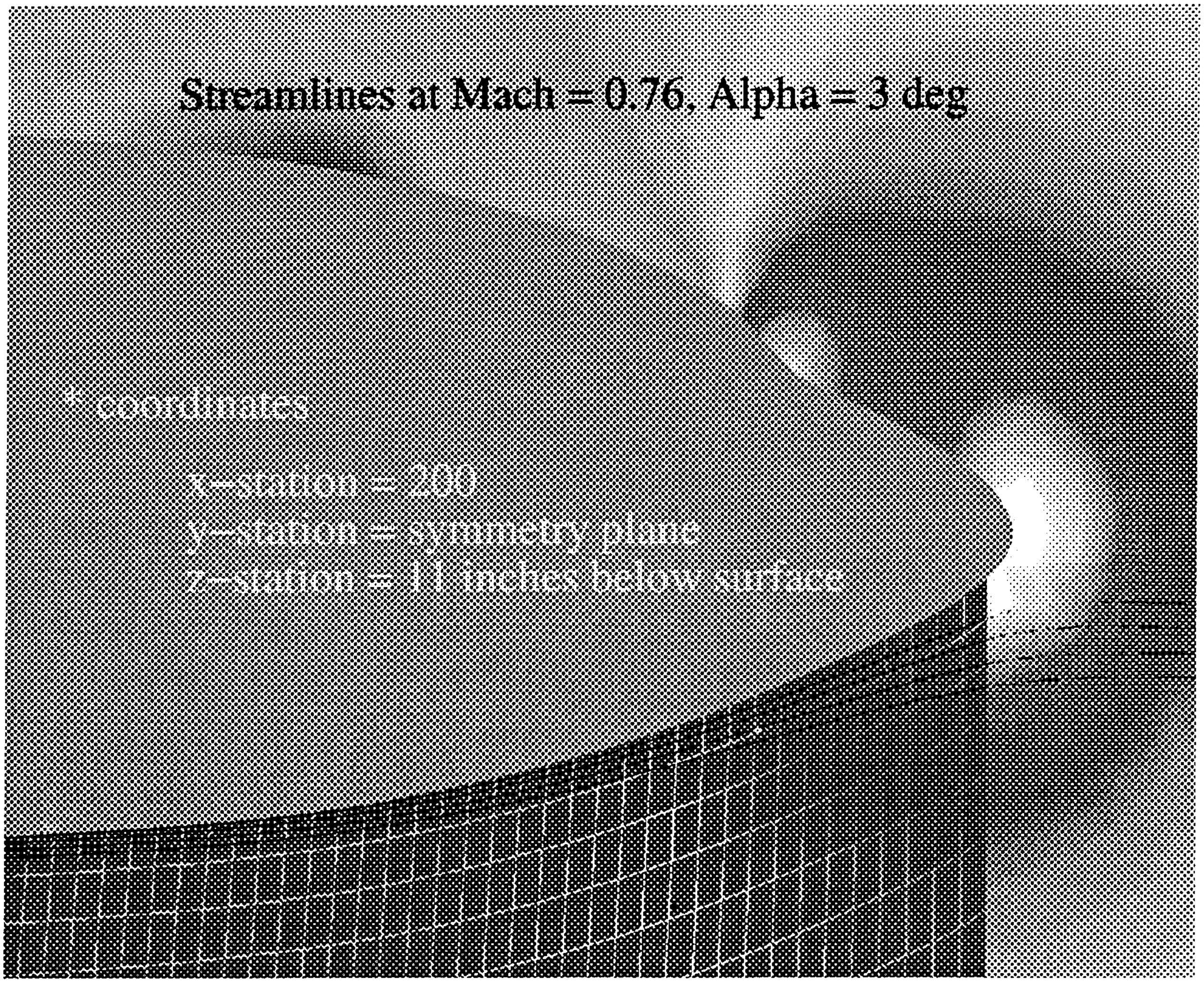


Figure 36: Streamlines under Aircraft Nose
(Mach=0.76, Alpha=3.0 deg, Beta=0.0 deg)

7. CFD Results Summary

The analysis provided here is very general in nature and is intended to bring several observations to light. More detailed analysis would require additional direction by the ABL SPO to focus on the specific requirements of the analysis. In general, gaining an understanding of specific areas of concern is best accomplished through discussion and interactive viewing of the data.

From the previously presented results, it is obvious that the plate/pylon have a significant effect on the air flow over the aircraft. The tabulated results show that the presence of the plate/pylon reduces the CL for moderate angles of attack. Although the pylon produces some lift, its influence on the right wing creates a net loss. In turn, the reduced lift on the right wing of the aircraft and the increased lift on the pylon appears to add to the nose up pitching moment, increases the negative rolling moment, and increases the positive yawing moment. The Mach number plots provided show reduced Mach number over the right wing and also shows that the right horizontal stabilizer is experiencing increased lift perhaps due to reduced downwash of the right wing. The flow over the plate and pylon can also be seen in the Mach number plots. These computations show that the pylon has significant transonic and low supersonic flow over most of its surface for cases where the freestream Mach number exceeds 0.76 and may experience mild shocks, especially at the 5.5 degree angle of attack case. The plate sees a local acceleration on the leading edge droop and of the plate and a weak shock forms for the higher freestream Mach number cases. This shock increases in strength as the Mach number increases but the location remains stationary. The flow over the pylon aft of the plate resembles a recirculation region. This flow region occurs only near the surface and may be due to the modelling of the plate thickness. The aft edge of the plate was purposefully left with a rearward facing step to fix the location of separation at the back of the plate.

Results from the Mach 0.36 case illustrate a more complex flow field, and should be viewed in a qualitative manner. The severe angles of attack and sideslip produce massive separation on the left wing and the right side of the vertical tail. This in turn produces a wake off of the plate which follows the trailing edge of the wing (see particle trace plot). Surprisingly, the flow on the outboard side of the plate does not appear to be separated. From the particle trace it appears that

the flow wraps around the nose and fuselage without separating. It is important to remember that optical data will not be taken at this flight condition. Therefore, interest in this condition is purely for control and structural purposes.

The Cp plots on the plate should be used in conjunction with the tabulated Cp data. The cases plotted all show a uniform Cp distribution in the region where the optical window is located. The tabulated Cp data was provided to the 4950 Test Wing to calculate loading on the plate and pylon. Results of their work are included in Section 9 of this report and in Reference 3.

8. Tunnel Test Comparison

In April 1993, a wind tunnel test was conducted on four plate/pylon configurations in the WL/FIME Trisonic Gasdynamics Facility. This facility is a closed circuit, variable density, continuous flow wind tunnel with an operating Mach number range of 0.23 to 3.0.

For the tests conducted, a freestream Mach number of 0.7 was used. The 0.1 scale plate/pylon models were mounted on the side wall of the 2-foot test section and were able to pivot to change the angle of attack (AoA). No sideslip cases (yaw angle not equal to zero) were possible due to the test setup. The main purpose of the wind tunnel test was to measure the boundary layer thickness in the optical window region. In addition to collecting boundary layer data, static pressure ports collected data on the splitter plate centerline, and tufts and oil flows were used for flow visualization. (For complete information on the wind tunnel test, the reader is directed to Reference 1.)

For purposes of comparison with the CFD analysis, the baseline plate tested in the tunnel is a scaled version of the geometry used for the CFD analysis. One must remember that the tunnel model is mounted on a flat wall while the CFD configuration has a plate/pylon mounted on a curved fuselage. An inspection of the CFD and tunnel pressure data shows consistently uniform flow in the optical window region, and similar trends in the data. Direct comparison of the pressure values is not included due to the differences in flight conditions and geometry. Inclusion of the wind tunnel data in this report is solely for a qualitative comparison of streamline data with the calculated results.

Courtesy of Dr.James Van Kuren, the following two pictures (Figures 37 and 38) are included for comparison with the CFD results. Figure 37 shows tufts attached to the outboard surface of the plate. These tufts show the uniformity of the flow on the plate. Figure 38 shows an oil flow at an angle of attack of 2.5 degrees. Of particular interest in this picture is the stalled region (indicated by the stationary oil) on the pylon aft of the plate. This region is caused by the bluntness of the plate's trailing edge, and is consistent with findings in the CFD results (see Figure 39).

Although the flow conditions are slightly different for Figures 38 and 39, the angles of the oil

flow on the plate are remarkably similar. The oil flow on the pylon in Figure 39 indicates that the flow is also stalled in the computational solution as mentioned above.

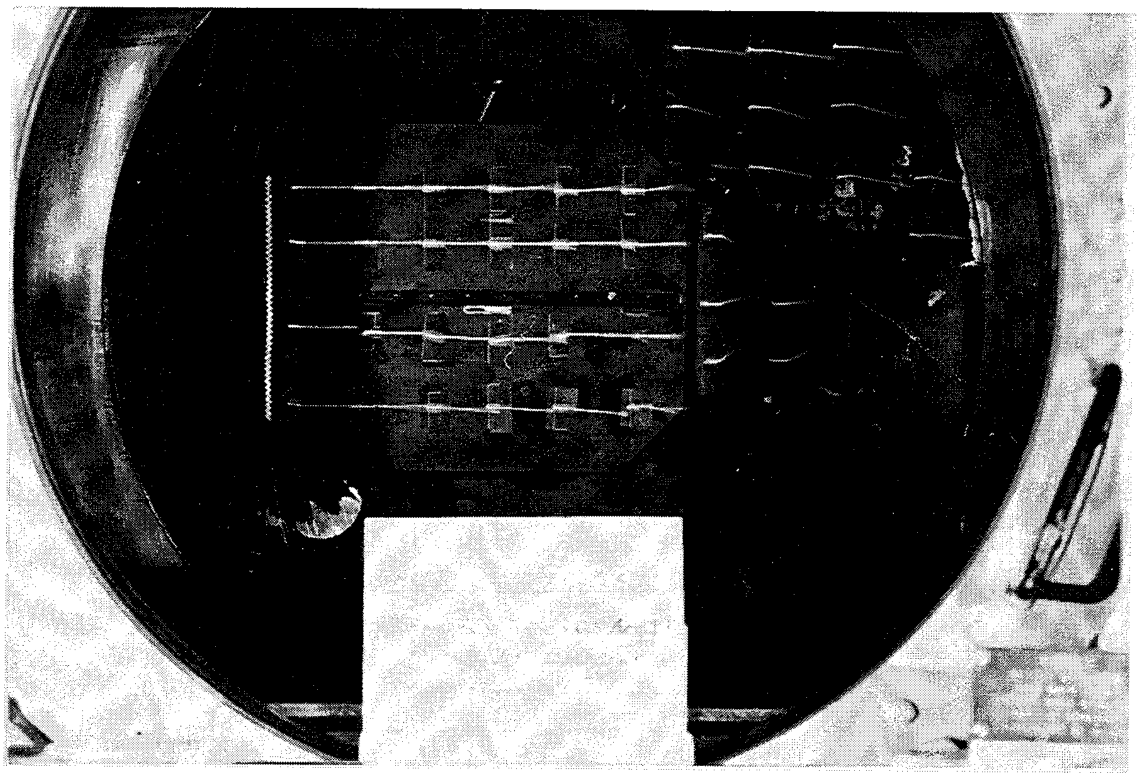


Figure 37: Tufted Splitter Plate in Tunnel

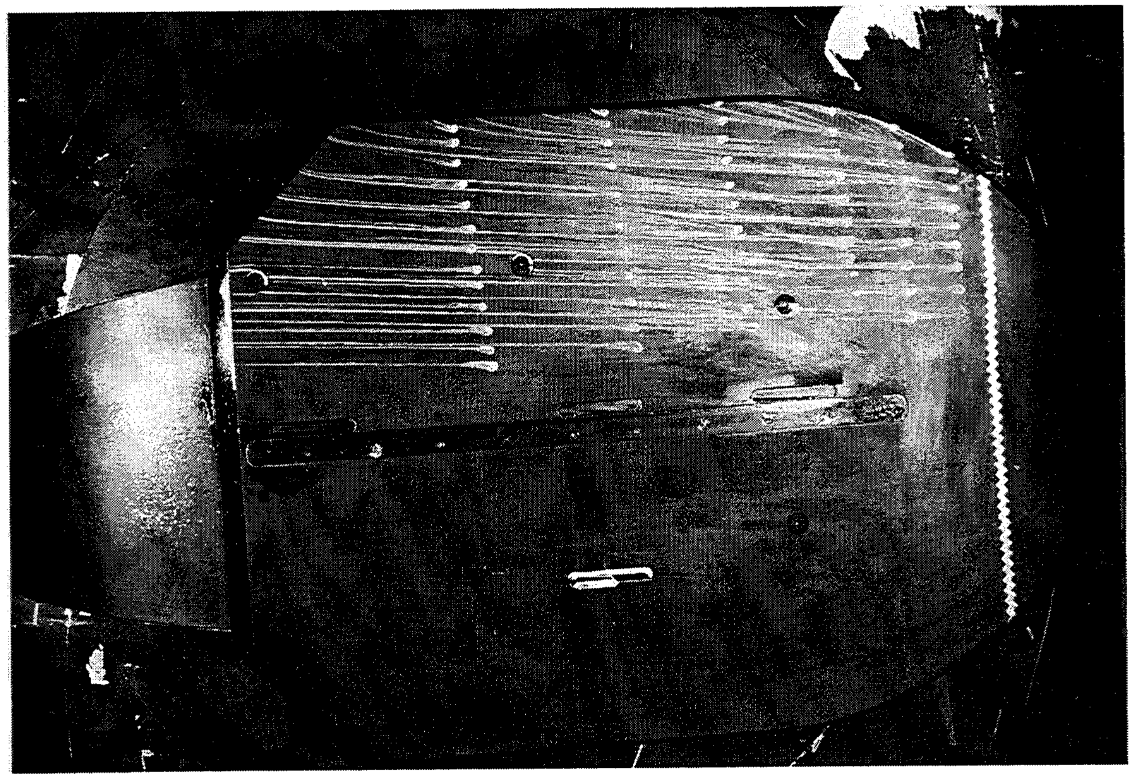


Figure 38: Splitter Plate Oil Flow in Tunnel *(Mach=0.7, Alpha=2.5 deg)*

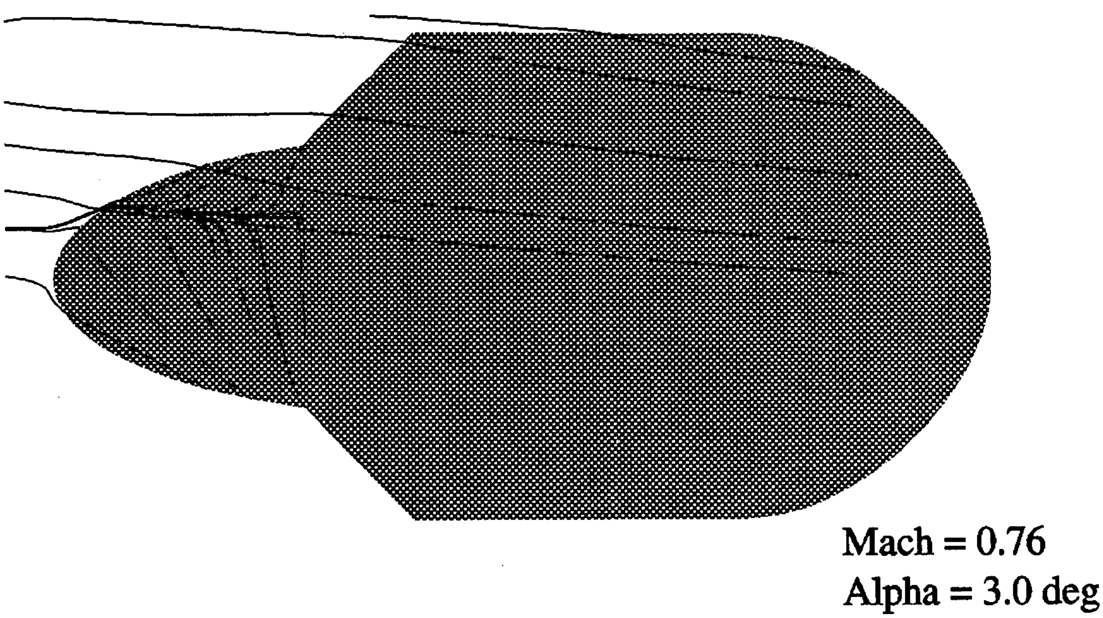


Figure 39: CFD Oil Flow on Splitter Plate

9. Plate and Pylon Loading

From the CFD analysis performed, pressure coefficient (Cp) data was extracted for use by the 4950 Test Wing. The Appendix contains the tabulated Cp data for the panels which make up the plate and pylon surfaces. This data was provided to the 4950 Test Wing where it was used to produce the loads and moments which act on the plate and pylon. From the Cp data, pressure loads (in lbs) were calculated on surface panels by using the definition of Cp, the area of the surface panel, and the unit normal. By summing the panels of interest, total loads and their directions were calculated. For the moment calculations, the loads were summarized around: fs 450, bl 84.5, and wl=256.

Courtesy of Mr Dave Bushroe of the 4950 Test Wing the following tables, seven thorugh eleven, have been included to complete the results.

Table 7: Test Condition Summary

Condition	Altitude (feet)	Ve (KEAS)	Mach	Beta (deg)	Alpha (deg)	q (psf)	q (psi)
1	23800	360	0.87	-4.1	5.5	437.76	3.04
2	23800	360	0.87	-4.1	1.4	437.76	3.04
3	0	240	0.36	-14.5	14.6	191.98	1.33
4	45000	189	0.76	0.0	3.0	124.53	0.86

(KEAS = Knots Equivalent Airspeed, q = dynamic pressure)

In the following tables, eight through eleven, the first four surfaces represent the sides of the pylon, the next two represent the inboard plate surfaces, and the remaining surfaces represent the outboard plate surfaces and the top of the pylon.

Table 8: Pressures and Moments for Condition 1

Pressure and Moments on Plate and Pylon Surfaces

(Alt=23800 ft, Ve=360 keas, M=.87, Beta=-4.1 deg, Alpha=5.5 deg, q=3.04 psi)

Surface	Area	px	py	pz	mxx	myy	mzz
L A Py	751.0	10.6	0.6	-173.6	986.1	16122.5	-157.2
F Py B	2099.1	476.6	0.0	-918.3	4111.6	43926.9	4146.8
U A Py	2152.6	142.5	0.5	944.5	-18460.7	-85206.8	3061.0
F Py U	5923.6	-688.8	2.0	6469.4	-121879.8	-139361.0	-11769.4
Py Tot	10926.3	-59.1	3.1	6322.0	-135242.7	-164518.4	-4718.7
L Pl B	5231.6	-63.9	764.8	0.0	-21792.1	83.8	-160241.2
U Pl B	5224.2	48.1	-2402.5	0.0	129566.5	4002.9	-89673.2
Py T A Pl	3182.6	89.1	1020.4	0.0	-120.5	-131.7	89095.0
U Pl T	5228.7	-172.0	3110.2	-0.2	-99874.1	-4651.7	-132871.9
M Pl T	7749.1	-63.4	1814.6	0.0	-3276.5	-112.4	23616.6
L Pl T	5236.0	-207.7	3665.2	0.7	124729.6	5370.8	-176362.0
Pl Tot	31852.3	-389.8	7972.8	0.6	119293.8	4561.5	-426436.5
Totals		-448.9	7975.9	6322.6	-15948.8	-159956.9	-431155.3

(All table values have been rounded to the nearest decimal place for tabulation. For surface names the following abbreviations are used: L=Lower, A=Aft, F=Forward, U=Upper, B=Bottom, T=Top, M=Middle, Py=Pylon, Pl=Plate)

Table 9: Pressures and Moments for Condition 2

Pressure and Moments on Plate and Pylon Surfaces

(Alt=23800 ft, Ve=360 keas, M=.87, Beta=-4.1 deg, Alpha=1.4 deg, q=3.04 psi)

Surface	Area	px	py	pz	mxx	myy	mzz
L A Py	751.0	-39.5	0.4	-57.7	150.7	4144.9	-664.5
F Py B	2099.1	140.4	0.1	1682.7	8894.7	26964.5	1983.6
U A Py	2152.6	138.0	0.5	881.8	-17411.1	-78935.8	2965.6
F Py U	5923.6	-174.7	1.7	5899.9	-114582.7	-160239.7	-5412.2
Py Tot	10926.3	84.1	2.6	5041.3	-122948.4	-206045.5	-1127.5
L Pl B	5231.6	-47.1	-888.0	0.0	-86105.8	-1666.8	-116937.4
U Pl B	5224.2	-5.9	-1313.4	0.1	99029.9	2574.7	-130833.4
Py T A Pl	3182.6	-54.6	161.8	0.0	-321.3	-28.3	3783.7
U Pl T	5228.7	-230.8	4006.2	-0.5	-129342.5	-8122.9	-181044.8
M Pl T	7749.1	-69.9	2000.9	0.0	-4021.1	-140.5	19696.6
L Pl T	5236.0	-239.7	4002.6	1.1	116673.1	5762.2	-203232.4
Pl Tot	31852.3	-648.2	7970.1	0.7	-2087.9	176.3	-608565.7
Totals		-584.1	7972.7	5041.9	-125036.3	-205867.1	-609693.2

(All table values have been rounded to the nearest decimal place for tabulation. For surface names the following abbreviations are used: L=Lower, A=Aft, F=Forward, U=Upper, B=Bottom, T=Top, M=Middle, Py=Pylon, Pl=Plate)

Table 10: Pressures and Moments for Condition 3

Pressure and Moments on Plate and Pylon Surfaces

(Alt=0 ft, Ve=240 keas, M=.36, Beta=-14.5 deg, Alpha=14.6 deg, q=1.33 psi)

Surface	Area	px	py	pz	mxx	myy	mzz
L A Py	751.0	141.3	1.0	-438.8	2868.8	43175.3	1238.4
F Py B	2099.1	269.4	-0.2	-168.5	367.6	29746.9	1967.7
U A Py	2152.6	320.4	0.7	1026.0	-19259.9	-100850.3	6002.8
F Py U	5923.6	-397.6	0.9	2991.6	-56019.3	-74356.1	-5357.8
Py Tot	10926.3	333.4	3.4	3410.3	-72042.7	-102284.1	3851.1
L Pl B	5231.6	-114.6	2398.1	0.0	77212.4	3272.0	-97166.6
U Pl B	5224.2	-53.0	-622.0	0.0	47528.9	524.1	-70578.4
Py T A Pl	3182.6	501.4	2918.7	0.1	-3819.3	587.4	291952.4
U Pl T	5228.7	-101.5	1581.5	-0.1	-52008.6	-2576.5	-59949.4
M Pl T	7749.1	-75.0	2146.9	0.0	2237.3	78.0	47561.0
L Pl T	5236.0	-188.0	3392.0	-0.4	129446.1	5634.8	-95113.7
Pl Tot	31852.3	-30.7	11815.1	-0.3	200596.7	7519.8	16705.3
Totals		302.8	11817.5	3410.0	128554.0	-94764.3	20556.3

(All table values have been rounded to the nearest decimal place for tabulation. For surface names the following abbreviations are used: L=Lower, A=Aft, F=Forward, U=Upper, B=Bottom, T=Top, M=Middle, Py=Pylon, Pl=Plate)

Table 11: Pressures and Moments for Condition 4

Pressure and Moments on Plate and Pylon Surfaces

(Alt=45000 ft, Ve=189 keas, M=.76, Beta=0 deg, Alpha=3 deg, q=.865 psi)

Surface	Area	px	py	pz	mxx	myy	mzz
L A Py	751.0	9.3	0.3	-67.7	401.8	6416.9	9.6
F Py B	2099.1	107.6	0.0	-344.8	1667.3	12592.0	1004.9
U A Py	2152.6	72.7	0.2	372.4	-7079.2	-34332.9	1447.3
F Py U	5923.6	-222.0	0.7	2067.4	-39330.3	-46416.4	-3732.3
Py Tot	10926.3	-32.5	1.1	2027.3	-44340.5	-61740.4	-1270.5
L Pl B	5231.6	-6.8	-60.2	0.0	-14467.5	-376.0	-34105.1
U Pl B	5224.2	34.0	-956.7	0.0	45337.2	1640.6	-8762.0
Py T A Pl	3182.6	53.1	424.4	0.0	39.6	-16.7	39477.6
U Pl T	5228.7	-36.7	732.4	0.0	-25268.1	-1086.0	-22039.4
M Pl T	7749.1	-21.8	625.0	0.0	-1415.3	-49.4	12333.8
L Pl T	5236.0	-45.8	780.5	0.0	24342.9	1173.9	-35501.8
Pl Tot	31852.3	-24.0	1545.5	0.0	28568.7	1286.4	-48596.8
Totals		-56.5	1546.6	2027.3	-15771.8	-60454.0	-49867.3

(All table values have been rounded to the nearest decimal place for tabulation. For surface names the following abbreviations are used: L=Lower, A=Aft, F=Forward, U=Upper, B=Bottom, T=Top, M=Middle, Py=Pylon, Pl=Plate)

10. References

[1] Van Kuren, James T. "ABL AACT Splitter Plate, 0.1 Scale Wind Tunnel Test," April 1993

[2] Emsley H. T. "I3G/VIRGO, Interactive Graphics for Geometry Generation and Visual Interactive Rapid Grid Generation, User's Manual," WL-TM-91- 316.

[3] Emsley H. T. "PLUTO 3-D Grid Generator, User's Manual," WL-TM-91-312.

[4] Strang W. Z. "Mercury User's Manual," AFWAL-TM-88-217.

[5] Boeing Company "External Internal Loads for the C-135 Airplane," D6-7267, April 1961.

Appendix

(Cp data on plate and pylon surfaces)

THIS TABULATED DATA PROVIDES THE PRESSURE COEFFICIENT DATA OF ALL PANELS ON THE PLATE AND PYLON SURFACES

X,Y,Z	:	THE CENTROID COORDINATE LOCATION OF THE PANEL
AREA	:	THE SURFACE AREA OF THE PANEL
EX,EY,EZ	:	THE UNIT NORMAL COMPONENTS
CP1	:	PRESSURE COEFFICIENT AT (MACH = 0.76, ALPHA = 3.0, BETA = 0.0)
CP2	:	PRESSURE COEFFICIENT AT (MACH = 0.87, ALPHA = 5.5, BETA = -4.1)
CP3	:	PRESSURE COEFFICIENT AT (MACH = 0.36, ALPHA = 14.6, BETA = -14.5)
CP4	:	PRESSURE COEFFICIENT AT (MACH = 0.87, ALPHA = 1.4, BETA = -4.1)

pylon aft lower

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
549.2980	73.2220	226.0274	35.7519	0.1701	0.0036	-0.9854	-0.13760	-0.11164	-0.47665	-0.07741
561.0918	73.0427	228.4106	25.9181	0.2308	0.0030	-0.9730	-0.11435	-0.08551	-0.51197	-0.03390
570.8676	72.8062	231.0316	17.4671	0.2929	0.0033	-0.9561	-0.13280	-0.10461	-0.58486	-0.02985
578.7389	72.5117	233.7019	11.2953	0.3560	0.0045	-0.9345	-0.14832	-0.12010	-0.61202	-0.02649
584.9449	72.1625	236.2983	7.1759	0.4232	0.0067	-0.9060	-0.17513	-0.14067	-0.58801	-0.04235
589.7532	71.7545	238.7618	4.5699	0.4971	0.0081	-0.8676	-0.20098	-0.15698	-0.53014	-0.06636
593.4294	71.3059	241.0636	2.9851	0.5723	0.0039	-0.8200	-0.16791	-0.11488	-0.42955	-0.04762
596.2608	70.8533	243.1399	2.0235	0.6138	-0.0080	-0.7894	-0.05632	-0.00424	-0.26954	0.03687
598.4449	70.4052	245.0032	1.4305	0.6887	-0.0020	-0.7250	-0.04044	0.02026	-0.31898	0.04391
600.1243	69.9676	246.6871	1.0589	0.7298	-0.0035	-0.6836	0.05471	0.10334	-0.19713	0.12073
601.4092	69.5443	248.2119	0.8243	0.8034	0.0054	-0.5954	0.07480	0.11855	-0.24210	0.14594
602.3622	69.1348	249.6212	0.6764	0.8566	0.0030	-0.5159	0.14987	0.18381	-0.20520	0.22408
603.0971	68.7460	250.9017	0.5839	0.8791	-0.0027	-0.4767	0.23886	0.25898	-0.10858	0.32611
603.6568	68.3764	252.0695	0.5164	0.9249	0.0035	-0.3802	0.24126	0.25747	-0.17681	0.36673
604.0432	68.0232	253.1499	0.4737	0.9584	0.0020	-0.2854	0.31458	0.32013	-0.20988	0.47840
604.3008	67.6879	254.1459	0.4460	0.9776	-0.0002	-0.2106	0.42926	0.42241	-0.34118	0.63172
604.4716	67.3707	255.0598	0.4273	0.9880	-0.0014	-0.1544	0.52562	0.51239	-0.56345	0.75947
604.5837	67.0707	255.8982	0.4122	0.9939	-0.0017	-0.1099	0.65975	0.63291	-0.32021	0.87551
604.6553	66.7896	256.6613	0.3916	0.9971	-0.0020	-0.0763	0.79078	0.76992	0.23589	0.91372
548.7166	75.9146	225.9369	34.3594	0.1673	0.0030	-0.9859	-0.14295	-0.11611	-0.47262	-0.08507
560.6749	75.3414	228.3188	24.9538	0.2285	0.0025	-0.9735	-0.11423	-0.08528	-0.50479	-0.03658
570.5601	74.6850	230.9438	16.8586	0.2909	0.0029	-0.9568	-0.12477	-0.09685	-0.56894	-0.02477
578.4998	74.0133	233.6179	10.9303	0.3542	0.0041	-0.9351	-0.13419	-0.10702	-0.59163	-0.01579
584.7487	73.3550	236.2155	6.9624	0.4212	0.0063	-0.9070	-0.15584	-0.12359	-0.56820	-0.02670
589.5868	72.7108	238.6754	4.4472	0.4940	0.0074	-0.8694	-0.17701	-0.13635	-0.50725	-0.04625
593.2883	72.0892	240.9688	2.9135	0.5675	0.0026	-0.8234	-0.15299	-0.10310	-0.41676	-0.03433
596.1404	71.5121	243.0397	1.9824	0.6108	-0.0088	-0.7917	-0.04815	0.00142	-0.25971	0.04474
598.3411	70.9772	244.9029	1.4073	0.6854	-0.0032	-0.7281	-0.02971	0.02889	-0.29970	0.05351
600.0352	70.4806	246.5893	1.0461	0.7276	-0.0044	-0.6859	0.06038	0.10857	-0.18485	0.12505
601.3358	70.0194	248.1172	0.8187	0.7986	0.0034	-0.6018	0.08209	0.12551	-0.21792	0.14928
602.3061	69.5898	249.5307	0.6757	0.8531	0.0014	-0.5218	0.14616	0.18128	-0.19670	0.21571
603.0540	69.1931	250.8198	0.5857	0.8777	-0.0031	-0.4791	0.23886	0.26041	-0.09440	0.31671
603.6255	68.8240	251.9975	0.5201	0.9219	0.0022	-0.3874	0.24872	0.26583	-0.13301	0.35821
604.0240	68.4797	253.0887	0.4792	0.9566	0.0010	-0.2915	0.30664	0.31458	-0.15437	0.45029
604.2904	68.1611	254.0974	0.4524	0.9767	-0.0006	-0.2147	0.40802	0.40378	-0.28256	0.58982
604.4668	67.8652	255.0248	0.4341	0.9877	-0.0015	-0.1565	0.49297	0.48227	-0.60330	0.71628
604.5823	67.5889	255.8765	0.4191	0.9938	-0.0019	-0.1112	0.60857	0.58352	-0.54149	0.84093
604.6557	67.3322	256.6523	0.3983	0.9971	-0.0020	-0.0766	0.72823	0.70661	-0.08206	0.89922
548.1749	78.4239	225.8526	31.5272	0.1646	0.0023	-0.9864	-0.13357	-0.10722	-0.46163	-0.07537
560.2830	77.5028	228.2325	23.0916	0.2263	0.0021	-0.9741	-0.10650	-0.07826	-0.49834	-0.02875
570.2684	76.4665	230.8606	15.7337	0.2890	0.0026	-0.9573	-0.12187	-0.09395	-0.56417	-0.02185
578.2714	75.4481	233.5377	10.2819	0.3525	0.0038	-0.9358	-0.13004	-0.10287	-0.58278	-0.01211
584.5598	74.5022	236.1357	6.5965	0.4192	0.0059	-0.9079	-0.14857	-0.11679	-0.55868	-0.02067
589.4258	73.6361	238.5918	4.2424	0.4910	0.0067	-0.8711	-0.16738	-0.12767	-0.49884	-0.03837
593.1512	72.8510	240.8766	2.7967	0.5627	0.0012	-0.8267	-0.14425	-0.09577	-0.41134	-0.02702
596.0227	72.1556	242.9417	1.9148	0.6079	-0.0098	-0.7940	-0.04514	0.00337	-0.26331	0.04751
598.2391	71.5378	244.8046	1.3682	0.6822	-0.0043	-0.7312	-0.02510	0.03206	-0.29813	0.05774
599.9475	70.9849	246.4931	1.0233	0.7255	-0.0051	-0.6882	0.06124	0.10871	-0.19053	0.12625
601.2635	70.4877	248.0239	0.8063	0.7939	0.0014	-0.6080	0.08489	0.12752	-0.21658	0.15179
602.2507	70.0393	249.4413	0.6704	0.8495	-0.0003	-0.5275	0.14157	0.17665	-0.20129	0.21171
603.0113	69.6359	250.7386	0.5842	0.8764	-0.0038	-0.4816	0.23026	0.25268	-0.10139	0.30818
603.5945	69.2680	251.9261	0.5213	0.9190	0.0008	-0.3943	0.24595	0.26390	-0.11727	0.35203
604.0049	68.9334	253.0279	0.4828	0.9547	0.0002	-0.2974	0.29898	0.30866	-0.12157	0.43563
604.2800	68.6321	254.0491	0.4575	0.9758	-0.0009	-0.2186	0.39396	0.39191	-0.24329	0.56379
604.4619	68.3582	254.9898	0.4401	0.9873	-0.0015	-0.1586	0.47113	0.46265	-0.63657	0.68268
604.5807	68.1062	255.8548	0.4255	0.9937	-0.0017	-0.1124	0.56779	0.54623	-0.72559	0.80511
604.6561	67.8745	256.6432	0.4050	0.9970	-0.0019	-0.0769	0.66376	0.64230	-0.42959	0.88115
547.6918	80.6647	225.7772	27.7534	0.1623	0.0018	-0.9867	-0.15242	-0.12236	-0.48303	-0.09535
559.9279	79.4629	228.1541	20.6568	0.2244	0.0017	-0.9745	-0.11363	-0.08422	-0.50701	-0.03782
570.0002	78.1053	230.7839	14.2862	0.2872	0.0022	-0.9579	-0.12050	-0.09212	-0.55569	-0.02209
578.0586	76.7847	233.4629	9.4597	0.3509	0.0035	-0.9364	-0.12222	-0.09505	-0.56444	-0.00644
584.3820	75.5828	236.0605	6.1385	0.4173	0.0055	-0.9087	-0.13379	-0.10326	-0.53682	-0.00930
589.2727	74.5159	238.5122	3.9882	0.4881	0.0060	-0.8728	-0.14656	-0.10932	-0.47570	-0.02209
593.0198	73.5812	240.7882	2.6525	0.5581	0.0000	-0.8298	-0.12504	-0.07982	-0.39202	-0.01188
595.9092	72.7764	242.8472	1.8314	0.6050	-0.0106	-0.7962	-0.03368	0.01204	-0.25197	0.05646
598.1404	72.0818	244.7091	1.3193	0.6790	-0.0055	-0.7341	-0.01060	0.04367	-0.27551	0.06916
599.8619	71.4766	246.3993	0.9941	0.7234	-0.0059	-0.6904	0.07140	0.11725	-0.17308	0.13350
601.1927	70.9462	247.9325	0.7897	0.7893	-0.0004	-0.6140	0.09724	0.13841	-0.18815	0.15928
602.1962	70.4810	249.3534	0.6618	0.8461	-0.0018	-0.5330	0.14774	0.18250	-0.18048	0.21221
602.9693	70.0723	250.6586	0.5804	0.8750	-0.0045	-0.4840	0.23822	0.26081	-0.08236	0.30706
603.5638	69.7069	251.8555	0.5208	0.9161	-0.0005	-0.4009	0.26324	0.28092	-0.07164	0.35347
603.9861	69.3830	252.9676	0.4853	0.9530	-0.0006	-0.3030	0.30949	0.31993	-0.05161	0.42319
604.2698	69.1000	254.0011	0.4617	0.9750	-0.0015	-0.2224	0.39577	0.39504	-0.15011	0.53226
604.4571	68.8490	254.9551	0.4454	0.9870	-0.0018	-0.1607	0.46126	0.45444	-0.61187	0.63471
604.5793	68.6222	255.8332	0.4316	0.9935	-0.0020	-0.1136	0.53220	0.51361	-0.87248	0.74808
604.6564	68.4163	256.6343	0.4115	0.9970	-0.0020	-0.0772	0.58818	0.56394	-0.79807	0.84030
547.2765	82.5927	225.7122	23.5943	0.1603	0.0012	-0.9871	-0.13149	-0.10294	-0.44139	-0.07244
559.6154	81.1885	228.0851	18.0015	0.2227	0.0013	-0.9749	-0.10213	-0.07359	-0.49025	-0.02593
569.7594	79.5779	230.7150	12.7216	0.2856	0.0019	-0.9583	-0.11487	-0.08645	-0.54553	-0.01650

577.8640	78.0073	233.3944	8.5783	0.3495	0.0032	-0.9369	-0.11442	-0.08741	-0.54858	0.00068
584.2168	76.5860	235.9908	5.6509	0.4156	0.0051	-0.9096	-0.12194	-0.09219	-0.52156	0.00079
589.1287	75.3429	238.4373	3.7187	0.4854	0.0053	-0.8743	-0.13244	-0.09664	-0.46595	-0.01037
592.8949	74.2745	240.7043	2.5001	0.5536	-0.0012	-0.8328	-0.11290	-0.06989	-0.38957	-0.00156
595.8005	73.3709	242.7566	1.7431	0.6022	-0.0115	-0.7983	-0.02998	0.01387	-0.26318	0.06026
598.0450	72.6065	244.6171	1.2673	0.6759	-0.0066	-0.7369	-0.00809	0.04402	-0.28544	0.07238
599.7791	71.9536	246.3083	0.9628	0.7213	-0.0068	-0.6926	0.06722	0.11213	-0.19413	0.13145
601.1237	71.3933	247.8434	0.7714	0.7848	-0.0024	-0.6198	0.09251	0.13307	-0.20331	0.15656
602.1430	70.9136	249.2674	0.6521	0.8427	-0.0033	-0.5383	0.12978	0.16523	-0.20193	0.19832
602.9280	70.5013	250.5800	0.5755	0.8738	-0.0049	-0.4862	0.21088	0.23611	-0.10551	0.28452
603.5336	70.1399	251.7859	0.5196	0.9133	-0.0017	-0.4073	0.24370	0.26453	-0.06111	0.33605
603.9674	69.8278	252.9080	0.4871	0.9512	-0.0015	-0.3085	0.28876	0.30342	-0.00095	0.40071
604.2596	69.5641	253.9536	0.4654	0.9741	-0.0019	-0.2260	0.37214	0.37606	-0.04504	0.49853
604.4524	69.3371	254.9205	0.4505	0.9867	-0.0019	-0.1626	0.43472	0.43254	-0.49712	0.58429
604.5778	69.1366	255.8117	0.4375	0.9934	-0.0019	-0.1147	0.49885	0.48701	-0.79529	0.67910
604.6568	68.9576	256.6253	0.4180	0.9970	-0.0020	-0.0774	0.51296	0.49824	-0.98823	0.76211
546.9304	84.2024	225.6579	19.5190	0.1587	0.0007	-0.9873	-0.16309	-0.12915	-0.48790	-0.10458
559.3463	82.6755	228.0255	15.4186	0.2212	0.0009	-0.9752	-0.11355	-0.08292	-0.50694	-0.03808
569.5462	80.8814	230.6539	11.2090	0.2842	0.0015	-0.9588	-0.11767	-0.08806	-0.53877	-0.01972
577.6877	79.1136	233.3324	7.7305	0.3481	0.0029	-0.9374	-0.10983	-0.08227	-0.52786	0.00370
584.0646	77.5103	235.9263	5.1839	0.4139	0.0047	-0.9103	-0.10826	-0.07930	-0.49312	0.01078
588.9941	76.1160	238.3673	3.4612	0.4827	0.0046	-0.8757	-0.11063	-0.07693	-0.43413	0.00582
592.7769	74.9303	240.6248	2.3545	0.5493	-0.0024	-0.8356	-0.08827	-0.04853	-0.35777	0.01694
595.6968	73.9386	242.6701	1.6585	0.5995	-0.0124	-0.8003	-0.01183	0.02891	-0.23924	0.07352
597.9534	73.1113	244.5285	1.2173	0.6729	-0.0076	-0.7397	0.01389	0.06221	-0.24717	0.08881
599.6988	72.4157	246.2202	0.9326	0.7193	-0.0075	-0.6947	0.08587	0.12800	-0.15835	0.14478
601.0565	71.8286	247.7566	0.7537	0.7804	-0.0042	-0.6253	0.11532	0.15322	-0.15550	0.17192
602.0908	71.3368	249.1832	0.6425	0.8395	-0.0046	-0.5434	0.15525	0.18831	-0.15510	0.21373
602.8874	70.9227	250.5028	0.5707	0.8726	-0.0054	-0.4885	0.23839	0.26087	-0.07570	0.29921
603.5038	70.5667	251.7172	0.5185	0.9105	-0.0029	-0.4134	0.28025	0.29762	-0.03313	0.35402
603.9490	70.2678	252.8490	0.4889	0.9495	-0.0022	-0.3137	0.32485	0.33649	0.02975	0.41335
604.2496	70.0245	253.9064	0.4691	0.9733	-0.0022	-0.2295	0.40303	0.40451	0.02293	0.49714
604.4477	69.8224	254.8861	0.4555	0.9864	-0.0021	-0.1645	0.45652	0.45279	-0.35427	0.55973
604.5764	69.6493	255.7903	0.4434	0.9933	-0.0021	-0.1158	0.50947	0.49771	-0.55114	0.62787
604.6572	69.4983	256.6163	0.4244	0.9970	-0.0020	-0.0777	0.48893	0.47507	-0.93933	0.67843
546.6486	85.5163	225.6135	15.8370	0.1574	0.0002	-0.9875	-0.13079	-0.10096	-0.39924	-0.06944
559.1177	83.9408	227.9748	13.0969	0.2200	0.0006	-0.9755	-0.10031	-0.07132	-0.47866	-0.02405
569.3588	82.0276	230.6002	9.8556	0.2830	0.0012	-0.9591	-0.10977	-0.08049	-0.52349	-0.01127
577.5288	80.1119	233.2764	6.9744	0.3469	0.0026	-0.9379	-0.09947	-0.07238	-0.50759	0.01370
583.9244	78.3614	235.8670	4.7682	0.4124	0.0044	-0.9110	-0.09423	-0.06629	-0.47755	0.02328
588.8682	76.8391	238.3017	3.2320	0.4803	0.0041	-0.8771	-0.09559	-0.06358	-0.43096	0.01877
592.6650	75.5512	240.5494	2.2250	0.5452	-0.0036	-0.8383	-0.07704	-0.04003	-0.36860	0.02711
595.5975	74.4814	242.5874	1.5832	0.5969	-0.0132	-0.8022	-0.01115	0.02706	-0.26828	0.07566
597.8651	73.5979	244.4431	1.1727	0.6700	-0.0087	-0.7423	0.00788	0.05375	-0.28416	0.08616
599.6208	72.8638	246.1347	0.9056	0.7173	-0.0083	-0.6967	0.06901	0.11042	-0.21068	0.13379
600.9910	72.2532	247.6720	0.7381	0.7760	-0.0060	-0.6306	0.09103	0.12953	-0.20609	0.15508
602.0399	71.7514	249.1008	0.6343	0.8362	-0.0062	-0.5483	0.10676	0.14359	-0.21191	0.17709
602.8475	71.3372	250.4268	0.5668	0.8714	-0.0061	-0.4906	0.17112	0.20132	-0.13151	0.24800
603.4744	70.9879	251.6495	0.5178	0.9079	-0.0041	-0.4193	0.21513	0.24149	-0.05869	0.30765
603.9307	70.7033	252.7907	0.4911	0.9479	-0.0030	-0.3187	0.25689	0.27884	0.02058	0.36666
604.2396	70.4814	253.8596	0.4730	0.9725	-0.0026	-0.2329	0.33471	0.34616	0.02597	0.45415
604.4430	70.3054	254.8519	0.4607	0.9861	-0.0022	-0.1663	0.39745	0.40040	-0.28464	0.52124
604.5748	70.1605	255.7689	0.4494	0.9932	-0.0020	-0.1168	0.47166	0.46296	-0.33293	0.58392
604.6575	70.0386	256.6074	0.4309	0.9970	-0.0020	-0.0780	0.45020	0.44503	-0.80307	0.61590
546.4227	86.5728	225.5776	12.7013	0.1563	-0.0002	-0.9877	-0.17412	-0.13703	-0.49611	-0.11202
558.9243	85.0131	227.9317	11.1272	0.2189	0.0002	-0.9757	-0.11683	-0.08478	-0.50856	-0.03985
569.1939	83.0370	230.5528	8.7107	0.2819	0.0009	-0.9594	-0.11844	-0.08686	-0.52213	-0.01857
577.3848	81.0163	233.2255	6.3362	0.3458	0.0023	-0.9383	-0.09747	-0.06931	-0.48453	0.01426
583.7947	79.1486	235.8120	4.4177	0.4110	0.0040	-0.9116	-0.07903	-0.05178	-0.43730	0.03335
588.7499	77.5187	238.2400	3.0386	0.4779	0.0034	-0.8784	-0.06823	-0.03863	-0.37953	0.03771
592.5587	76.1418	240.4777	2.1155	0.5412	-0.0048	-0.8409	-0.04217	-0.00924	-0.31049	0.05203
595.5023	75.0025	242.5079	1.5193	0.5944	-0.0140	-0.8041	0.01942	0.05318	-0.21531	0.09702
597.7797	74.0685	244.3605	1.1348	0.6672	-0.0096	-0.7448	0.04470	0.08419	-0.20793	0.11298
599.5452	73.2998	246.0515	0.8829	0.7154	-0.0090	-0.6987	0.10274	0.13873	-0.13555	0.15814
600.9269	72.6683	247.5892	0.7251	0.7718	-0.0077	-0.6358	0.13229	0.16530	-0.11859	0.18464
601.9897	72.1585	249.0199	0.6277	0.8331	-0.0075	-0.5530	0.16047	0.18992	-0.11899	0.21522
602.8082	71.7455	250.3520	0.5640	0.8702	-0.0065	-0.4926	0.22425	0.24571	-0.07531	0.28330
603.4453	71.4041	251.5826	0.5180	0.9052	-0.0051	-0.4249	0.27025	0.28747	-0.05007	0.33999
603.9126	71.1348	252.7328	0.4938	0.9462	-0.0037	-0.3235	0.31367	0.32638	-0.02474	0.39706
604.2297	70.9353	253.8131	0.4774	0.9717	-0.0030	-0.2361	0.38932	0.39260	-0.05164	0.47408
604.4383	70.7861	254.8179	0.4661	0.9858	-0.0023	-0.1680	0.44669	0.44317	-0.27257	0.52750
604.5734	70.6705	255.7476	0.4555	0.9930	-0.0020	-0.1178	0.50711	0.49661	-0.19595	0.56887
604.6579	70.5784	256.5985	0.4374	0.9969	-0.0020	-0.0783	0.49568	0.48844	-0.58583	0.58323
546.2432	87.4159	225.5489	10.1435	0.1554	-0.0007	-0.9878	-0.14144	-0.10886	-0.33626	-0.07337
558.7599	85.9254	227.8950	9.5253	0.2180	-0.0001	-0.9759	-0.10736	-0.07750	-0.46077	-0.02917
569.0476	83.9331	230.5106	7.7820	0.2809	0.0007	-0.9597	-0.10841	-0.07784	-0.49869	-0.00754
577.2532	81.8427	233.1790	5.8195	0.3448	0.0021	-0.9387	-0.08381	-0.05653	-0.46382	0.02808
583.6737	79.8830	235.7607	4.1339	0.4096	0.0037	-0.9122	-0.06311	-0.03705	-0.43300	0.04838
588.6378	78.1621	238.1815	2.8815	0.4757	0.0029	-0.8796	-0.05414	-0.02649	-0.40451	0.05069
592.4569	76.7073	240.4090	2.0262	0.5374	-0.0057	-0.8433	-0.03713	-0.00755	-0.36682	0.05806
595.4103	75.5057	242.4312	1.4670	0.5920	-0.0147	-0.8058	0.00667	0.03708	-0.30174	0.09001
597.6966	74.5258	244.2802	1.1040	0.6644	-0.0106	-0.7473	0.00763	0.04555	-0.32535	0.08774
599.4711	73.7258	245.9702	0.8644	0.7135	-0.0096	-0.7005	0.04261	0.08081	-0.27528	0.11545
600.8641	73.0755	247.5080	0.7149	0.7677	-0.0093	-0.6408	0.04725	0.08683	-0.26965	0.12248
601.9404	72.5592	248.9402	0.6230	0.8301	-0.0087	-0.5576	0.03147	0.07392	-0.27793	0.11742
602.7693	72.1488	250.2782	0.5625	0.8691	-0.0069	-0.4946	0.07039	0.10955	-0.18965	0.16718
603.4165	71.8163	251.5163	0.5192	0.9026	-0.0062	-0.4304	0.11157	0.14880	-0.08290	0.22579
603.8947	71.5631	252.6755	0.4972	0.9446	-0.0043	-0.3281	0.13966	0.17661	-0.01966	0.27990
604.2198	71.3867	253.7669	0.4821	0.9710	-0.0031	-0.2392	0.22058	0.24949	-0.06020	0.37512
604.4337	71.2650	254.7840	0.4719	0.9855	-0.0024	-0.1696	0.30031	0.31758	-0.30586	0.45943
604.5719	71.1793	255.7263	0.4618	0.9929	-0.0022	-0.1188	0.38783	0.38814	-0.22069	0.52395
604.6583	71.1178	256.5896	0.4440	0.9969	-0.0020	-0.0785	0.41820	0.42478	-0.55833	0.57810

pylon aft upper

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
550.1262	48.3762	287.8208	134.2319	0.1717	0.0014	0.9852	-0.30816	-0.25794	-0.43759	-0.25431
561.9843	50.4717	285.3661	92.8888	0.2388	0.0017	0.9711	-0.27718	-0.22041	-0.45447	-0.21134
571.7032	52.6135	282.6921	61.4416	0.2966	0.0010	0.9550	-0.22829	-0.16922	-0.42744	-0.15505
579.4788	54.5321	279.9913	39.9484	0.3658	0.0018	0.9307	-0.19732	-0.13692	-0.43130	-0.11874
585.5487	56.2582	277.3716	25.6020	0.4331	0.0016	0.9013	-0.13264	-0.07718	-0.39871	-0.05570
590.2199	57.8192	274.9465	16.5738	0.4939	0.0014	0.8695	-0.06057	-0.01227	-0.36090	0.00958
593.7944	59.1648	272.7315	10.8728	0.5654	0.0029	0.8248	-0.01973	0.02374	-0.37693	0.04253
596.5238	60.3196	270.7218	7.3353	0.6243	0.0023	0.7812	0.05112	0.08589	-0.32422	0.10090
598.6110	61.3148	268.9070	5.0504	0.6919	0.0036	0.7220	0.09611	0.12892	-0.32833	0.13801
600.2133	62.1788	267.2740	3.5747	0.7372	0.0033	0.6757	0.16866	0.19697	-0.24312	0.19862
601.4419	62.9275	265.7932	2.5984	0.8033	0.0049	0.5956	0.18386	0.21530	-0.24466	0.20207
602.3665	63.5852	264.4283	1.9398	0.8525	0.0038	0.5227	0.22415	0.25664	-0.18414	0.22293
603.0811	64.1591	263.1778	1.4914	0.8837	0.0027	0.4680	0.28305	0.31624	-0.08194	0.25193
603.6299	64.6628	262.0277	1.1617	0.9209	0.0027	0.3899	0.32533	0.36132	-0.00659	0.24847
604.0213	65.1140	260.9594	0.9255	0.9558	0.0022	0.2940	0.39728	0.43023	0.08741	0.25811
604.2849	65.5210	259.9655	0.7513	0.9764	0.0010	0.2158	0.53097	0.54998	0.24199	0.32924
604.4611	65.8870	259.0447	0.6206	0.9875	0.0000	0.1578	0.67215	0.67378	0.34402	0.46290
604.5779	66.2162	258.1926	0.5193	0.9938	-0.0007	0.1114	0.82711	0.80740	0.60234	0.65059
604.6533	66.5128	257.4041	0.4391	0.9970	-0.0012	0.0768	0.86056	0.84224	0.52489	0.79777
549.1625	57.9387	287.9753	122.0834	0.1676	0.0010	0.9859	-0.32713	-0.27132	-0.40972	-0.26745
561.2583	58.3482	285.5306	85.1802	0.2341	0.0013	0.9722	-0.29405	-0.22981	-0.42294	-0.22039
571.1566	58.9749	282.8549	56.7840	0.2933	0.0007	0.9560	-0.24406	-0.17823	-0.40203	-0.16400
579.0555	59.6539	280.1478	37.1892	0.3618	0.0014	0.9323	-0.20676	-0.14238	-0.40751	-0.12453
585.2151	60.3932	277.5247	24.0399	0.4288	0.0011	0.9034	-0.14269	-0.08658	-0.38821	-0.06639
589.9539	61.1762	275.0922	15.6757	0.4907	0.0010	0.8713	-0.06667	-0.02097	-0.35593	-0.00141
593.5798	61.9198	272.8690	10.3591	0.5612	0.0024	0.8277	-0.01448	0.02424	-0.36479	0.04021
596.3520	62.6074	270.8525	7.0356	0.6200	0.0017	0.7846	0.06258	0.09311	-0.30740	0.10511
598.4742	63.2368	269.0286	4.8777	0.6882	0.0031	0.7255	0.10620	0.13655	-0.31493	0.14288
600.1052	63.8101	267.3842	3.4720	0.7342	0.0028	0.6790	0.17658	0.20344	-0.22719	0.20251
601.3595	64.3261	265.8927	2.5388	0.7986	0.0042	0.6019	0.18872	0.21984	-0.22822	0.20352
602.3069	64.7965	264.5167	1.9067	0.8496	0.0033	0.5275	0.23740	0.26948	-0.15071	0.23267
603.0382	65.2187	263.2527	1.4731	0.8819	0.0023	0.4715	0.29732	0.33069	-0.04540	0.26109
603.6010	65.5975	262.0896	1.1529	0.9184	0.0023	0.3955	0.33462	0.37112	0.02691	0.24885
604.0043	65.9463	261.0084	0.9235	0.9543	0.0019	0.2988	0.40933	0.44180	0.11916	0.25771
604.2762	66.2704	260.0010	0.7529	0.9757	0.0008	0.2191	0.55489	0.57051	0.27810	0.34858
604.4575	66.5685	259.0673	0.6243	0.9872	-0.0001	0.1595	0.69443	0.69115	0.37500	0.49454
604.5771	66.8410	258.2034	0.5240	0.9937	-0.0007	0.1124	0.82026	0.79806	0.57941	0.67384
604.6539	67.0897	257.4052	0.4433	0.9970	-0.0012	0.0770	0.82505	0.80640	0.45275	0.80798
548.3271	66.2302	288.1093	101.4025	0.1641	0.0006	0.9864	-0.33290	-0.26557	-0.41139	-0.25916
560.6194	65.2812	285.6755	72.1869	0.2300	0.0008	0.9732	-0.30378	-0.22961	-0.43299	-0.21966
570.6683	64.6583	283.0005	49.0474	0.2904	0.0004	0.9569	-0.26033	-0.18559	-0.42418	-0.17218
578.6720	64.2951	280.2898	32.6886	0.3581	0.0010	0.9337	-0.22280	-0.15216	-0.43197	-0.13554
584.9090	64.1891	277.6653	21.5009	0.4248	0.0007	0.9053	-0.16277	-0.10403	-0.42039	-0.08572
589.7068	64.2940	275.2277	14.2292	0.4877	0.0007	0.8730	-0.08859	-0.04330	-0.39329	-0.02634
593.3785	64.5048	272.9982	9.5331	0.5571	0.0019	0.8304	-0.03254	0.00470	-0.39981	0.01743
596.1893	64.7733	270.9762	6.5530	0.6158	0.0012	0.7879	0.04182	0.07265	-0.34527	0.08150
598.3438	65.0707	269.1446	4.5956	0.6847	0.0026	0.7288	0.08263	0.11480	-0.35362	0.11891
600.0013	65.3774	267.4900	3.3025	0.7312	0.0024	0.6821	0.15217	0.18189	-0.26385	0.18022
601.2799	65.6780	265.9890	2.4374	0.7939	0.0035	0.6080	0.16226	0.19725	-0.26156	0.18139
602.2491	65.9737	264.6025	1.8469	0.8467	0.0028	0.5321	0.20382	0.24157	-0.18813	0.20585
602.9963	66.2535	263.3258	1.4375	0.8801	0.0020	0.4749	0.25723	0.29823	-0.07948	0.22998
603.5725	66.5144	262.1503	1.1330	0.9161	0.0018	0.4009	0.28599	0.33214	-0.00484	0.20894
603.9876	66.7661	261.0566	0.9143	0.9529	0.0016	0.3034	0.35240	0.39613	0.08131	0.20497
604.2678	67.0113	260.0361	0.7501	0.9750	0.0007	0.2222	0.49909	0.52556	0.23559	0.29256
604.4539	67.2446	259.0898	0.6255	0.9869	0.0000	0.1611	0.64087	0.64612	0.31791	0.44194
604.5762	67.4631	258.2141	0.5274	0.9935	-0.0006	0.1135	0.76136	0.74563	0.48544	0.63134
604.6545	67.6657	257.4063	0.4472	0.9970	-0.0012	0.0773	0.76213	0.74644	0.32256	0.77847
547.6589	72.8680	288.2168	78.3538	0.1613	0.0002	0.9869	-0.32434	-0.25553	-0.40556	-0.24643
560.0940	70.9868	285.7950	57.7679	0.2266	0.0004	0.9740	-0.29988	-0.22533	-0.42394	-0.21493
570.2559	69.4597	283.1236	40.5140	0.2879	0.0002	0.9577	-0.25869	-0.18284	-0.41479	-0.16980
578.3402	68.3111	280.4127	27.7596	0.3549	0.0007	0.9349	-0.21714	-0.14592	-0.41924	-0.12945
584.6384	67.5439	277.7897	18.7242	0.4212	0.0003	0.9069	-0.15795	-0.10129	-0.41223	-0.08296
589.4844	67.1006	275.3496	12.6523	0.4849	0.0004	0.8746	-0.08434	-0.04409	-0.39074	-0.02768
593.1944	66.8687	273.1163	8.6328	0.5534	0.0015	0.8329	-0.02338	0.00759	-0.39472	0.01870
596.0385	66.7807	271.0910	6.0267	0.6120	0.0007	0.7908	0.05003	0.07692	-0.34330	0.08402
598.2215	66.7900	269.2534	4.2864	0.6814	0.0021	0.7319	0.08820	0.11842	-0.35394	0.12199
599.9030	66.8613	267.5901	3.1161	0.7284	0.0020	0.6851	0.15397	0.18299	-0.26653	0.18290
601.2040	66.9692	266.0809	2.3251	0.7895	0.0028	0.6137	0.15987	0.19471	-0.26133	0.18266
602.1934	67.1066	264.6852	1.7799	0.8439	0.0024	0.5365	0.19049	0.22970	-0.19452	0.19925
602.9558	67.2560	263.3967	1.3970	0.8783	0.0017	0.4781	0.23274	0.27755	-0.08589	0.21493
603.5449	67.4081	262.2094	1.1099	0.9138	0.0014	0.4061	0.24488	0.29844	-0.01398	0.17822
603.9712	67.5695	261.1039	0.9030	0.9515	0.0013	0.3078	0.29057	0.34485	0.05808	0.14924
604.2593	67.7411	260.0707	0.7459	0.9743	0.0005	0.2252	0.43263	0.46645	0.20095	0.22174
604.4503	67.9138	259.1119	0.6259	0.9867	-0.0002	0.1626	0.57796	0.58482	0.25949	0.37499
604.5754	68.0813	258.2247	0.5305	0.9934	-0.0008	0.1143	0.69351	0.67638	0.38086	0.57775
604.6552	68.2406	257.4073	0.4510	0.9970	-0.0013	0.0775	0.69358	0.67524	0.16960	0.73803
547.1559	77.8688	288.2980	57.5781	0.1592	-0.0001	0.9872	-0.29037	-0.22339	-0.36594	-0.21365
559.6808	75.4774	285.8893	44.8035	0.2239	0.0001	0.9746	-0.27487	-0.20249	-0.39443	-0.19246
569.9186	73.3882	283.2244	32.8694	0.2859	-0.0001	0.9583	-0.24232	-0.16702	-0.39491	-0.15420
578.0596	71.7083	280.5168	23.3621	0.3522	0.0004	0.9359	-0.20209	-0.13143	-0.39955	-0.11470
584.4031	70.4621	277.8981	16.2484	0.4181	0.0000	0.9084	-0.14653	-0.09236	-0.39766	-0.07353
589.2865	69.5992	275.4583	11.2485	0.4825	0.0001	0.8759	-0.07611	-0.04057	-0.38340	-0.02439
593.0275	69.0137	273.2235	7.8310	0.5500	0.0010	0.8352	-0.01388	0.01194	-0.38827	0.02191
595.8996	68.6313	271.1969	5.5578	0.6085	0.0003	0.7936	0.05514	0.07950	-0.34393	0.08567
598.1073	68.3960	269.3550	4.0105	0.6783	0.0017	0.7348	0.08864	0.11867	-0.35906	0.12280
599.8101	68.2629	267.6848	2.9497	0.7258	0.0016	0.6879	0.14815	0.17921	-0.27814	0.18250
601.1315	68.2001	266.1686	2.2248	0.7853	0.0021	0.6191	0.14696	0.18602	-0.27237	0.18141
602.1399	68.1955	264.7646	1.7200	0.8412	0.0019	0.5407	0.15456	0.20340	-0.22008	0.18468
602.9165	68.2267	263.4653	1.3611	0.8766	0.0014	0.4812	0.16781	0.22762	-0.11754	0.18208
603.5179	68.2789	262.2670	1.0896	0.9116	0.0010	0.4112	0.14606	0.21964	-0.05092	0.11801
603.9552	68.3569	261.1501	0.8934	0.9501	0.0010	0.3120	0.14654	0.22865	0.00365	0.04152
604.2510	68.4601	260.1048	0.7427	0.9736	0.0005	0.2282	0.27051	0.33652	0.13358	0.06822
604.4468	68.5762	259.1339	0.6268	0.9864	-0.0001	0.1642	0.43205	0.46488	0.17463	0.20690
604.5747	68.6959	258.2353	0.5338	0.9933	-0.0006	0.1153	0.57230	0.57188	0.27938	0.43687
604.6558	68.8143	257.4083	0.4548	0.9970	-0.0011	0.0778	0.60010	0.58984	0.06751	0.63529
546.7924	81.4904	288.3572	41.1406	0.1577	-0.0004	0.9875	-0.28746	-0.22331	-0.37975	-0.21195
559.3622	78.9443	285.9623	34.5630	0.2219	-0.0002	0.9751	-0.26507	-0.19537	-0.39100	-0.18476
569.6447	76.5811	283.3065	26.8454	0.2842	-0.0003	0.9588	-0.22679	-0.15398	-0.37805	-0.14082
577.8220	74.5840	280.6052	19.9052	0.3499	0.0001	0.9368	-0.18246	-0.11513	-0.37539	-0.09743
584.1975	73.0125	277.9929	14.3027	0.4154	-0.0003	0.9096	-0.12600	-0.07861	-0.37393	-0.05839
589.1091	71.8383	275.5557	10.1458	0.4802	-0.0001	0.8771	-0.05479	-0.02925	-0.36312	-0.01293

592.8748	70.9744	273.3217	7.2008	0.5469	0.0007	0.8372	0.00993	0.02707	-0.36630	0.03551
595.7706	70.3497	271.2952	5.1892	0.6051	-0.0001	0.7961	0.07564	0.09572	-0.32655	0.10070
597.9999	69.9064	269.4506	3.7936	0.6754	0.0013	0.7375	0.10554	0.13371	-0.34351	0.13903
599.7219	69.5950	267.7747	2.8190	0.7233	0.0012	0.6906	0.16073	0.18952	-0.26884	0.19683
601.0620	69.3804	266.2526	2.1466	0.7812	0.0015	0.6243	0.15931	0.19236	-0.26168	0.19495
602.0882	69.2474	264.8413	1.6738	0.8386	0.0014	0.5447	0.15941	0.19767	-0.22284	0.18845
602.8784	69.1704	263.5319	1.3338	0.8750	0.0011	0.4842	0.15973	0.21133	-0.12728	0.18279
603.4916	69.1304	262.3234	1.0747	0.9094	0.0006	0.4160	0.10576	0.18003	-0.06798	0.11039
603.9395	69.1307	261.1956	0.8871	0.9487	0.0007	0.3161	0.03625	0.13074	-0.03365	-0.01241
604.2428	69.1699	260.1384	0.7416	0.9730	0.0002	0.2310	0.09732	0.17418	0.07968	-0.07324
604.4434	69.2327	259.1557	0.6288	0.9862	-0.0002	0.1657	0.26397	0.30005	0.10384	0.02210
604.5739	69.3074	258.2458	0.5377	0.9932	-0.0008	0.1161	0.45702	0.44976	0.20080	0.27297
604.6563	69.3871	257.4094	0.4589	0.9970	-0.0013	0.0780	0.54024	0.52437	0.01009	0.51253
546.5345	84.0649	288.3995	29.1805	0.1566	-0.0007	0.9877	-0.23252	-0.17356	-0.30015	-0.16367
559.1154	81.6340	286.0193	27.1202	0.2203	-0.0005	0.9754	-0.23484	-0.16851	-0.35774	-0.15822
569.4189	79.2155	283.3744	22.4747	0.2828	-0.0005	0.9592	-0.20636	-0.13454	-0.35939	-0.12151
577.6172	77.0638	280.6815	17.4008	0.3478	-0.0002	0.9376	-0.16313	-0.09632	-0.35148	-0.07825
584.0144	75.2836	278.0774	12.8931	0.4130	-0.0006	0.9107	-0.10907	-0.06348	-0.35022	-0.04258
588.9473	73.8805	275.6447	9.3463	0.4782	-0.0004	0.8783	-0.04134	-0.01938	-0.34463	-0.00257
592.7331	72.7951	273.4128	6.7435	0.5440	0.0003	0.8391	0.02162	0.03542	-0.34916	0.04400
595.6491	71.9678	271.3878	4.9216	0.6020	-0.0005	0.7985	0.08023	0.10122	-0.31694	0.10588
597.8978	71.3444	269.5417	3.6364	0.6726	0.0010	0.7400	0.10293	0.13672	-0.33967	0.14316
599.6372	70.8744	267.8611	2.7248	0.7208	0.0009	0.6931	0.14816	0.18612	-0.27686	0.19852
600.9949	70.5223	266.3340	2.0909	0.7772	0.0009	0.6293	0.13814	0.18271	-0.27284	0.19530
602.0380	70.2712	264.9160	1.6417	0.8361	0.0010	0.5486	0.10880	0.16369	-0.25473	0.17003
602.8411	70.0938	263.5972	1.3154	0.8734	0.0009	0.4871	0.07486	0.14194	-0.17477	0.13760
603.4657	69.9672	262.3787	1.0655	0.9072	0.0002	0.4207	-0.00760	0.08180	-0.12592	0.04883
603.9240	69.8943	261.2405	0.8843	0.9474	0.0004	0.3201	-0.14202	-0.02128	-0.11564	-0.10938
604.2347	69.8727	260.1717	0.7425	0.9723	0.0001	0.2337	-0.15302	-0.03289	-0.02085	-0.25292
604.4399	69.8849	259.1773	0.6321	0.9859	-0.0003	0.1672	0.02244	0.08442	-0.00680	-0.22162
604.5732	69.9166	258.2563	0.5421	0.9931	-0.0007	0.1170	0.30304	0.31046	0.10387	0.07293
604.6569	69.9592	257.4103	0.4630	0.9969	-0.0011	0.0781	0.45546	0.43946	-0.06842	0.34802
546.3517	85.8970	288.4299	20.9376	0.1558	-0.0010	0.9878	-0.26366	-0.20255	-0.37532	-0.19103
558.9196	83.7727	286.0648	21.9951	0.2190	-0.0008	0.9757	-0.23467	-0.16911	-0.36962	-0.15780
569.2271	81.4541	283.4322	19.4687	0.2816	-0.0007	0.9595	-0.19054	-0.12184	-0.34350	-0.10728
577.4357	79.2631	280.7493	15.6793	0.3461	-0.0004	0.9382	-0.13733	-0.07705	-0.32438	-0.05633
583.8474	77.3568	278.1547	11.9240	0.4107	-0.0009	0.9118	-0.07295	-0.04244	-0.31724	-0.01928
588.7965	75.7830	275.7276	8.7957	0.4763	-0.0006	0.8793	0.00132	0.00532	-0.30965	0.02061
592.5991	74.5166	273.4990	6.4283	0.5412	0.0000	0.8409	0.06493	0.06871	-0.30908	0.07365
595.5330	73.5147	271.4764	4.7369	0.5990	-0.0009	0.8008	0.12096	0.13641	-0.27901	0.13961
597.7992	72.7309	269.6295	3.5287	0.6698	0.0006	0.7425	0.14745	0.17001	-0.29537	0.17818
599.5550	72.1165	267.9451	2.6604	0.7185	0.0006	0.6956	0.19943	0.21859	-0.23847	0.23209
600.9293	71.6369	266.4134	2.0536	0.7733	0.0003	0.6341	0.21523	0.23025	-0.23004	0.24255
601.9886	71.2752	264.9893	1.6212	0.8336	0.0006	0.5523	0.21150	0.22994	-0.21626	0.23568
602.8044	71.0027	263.6614	1.3045	0.8718	0.0006	0.4899	0.18298	0.22214	-0.14403	0.22354
603.4402	70.7937	262.4334	1.0610	0.9051	-0.0001	0.4252	0.08762	0.15896	-0.09999	0.15244
603.9086	70.6505	261.2849	0.8845	0.9461	0.0002	0.3240	-0.09681	0.01498	-0.10108	-0.01993
604.2268	70.5706	260.2048	0.7453	0.9717	-0.0001	0.2364	-0.23793	-0.13018	-0.02618	-0.24294
604.4364	70.5340	259.1988	0.6363	0.9857	-0.0004	0.1685	-0.11441	-0.07112	-0.02980	-0.30235
604.5724	70.5241	258.2667	0.5471	0.9930	-0.0007	0.1179	0.21740	0.20098	0.06814	-0.03986
604.6575	70.5307	257.4113	0.4674	0.9969	-0.0013	0.0784	0.44653	0.41269	-0.09971	0.24429
546.2196	87.2258	288.4522	15.4503	0.1552	-0.0014	0.9879	-0.17763	-0.12794	-0.19899	-0.11723
558.7582	85.5378	286.1026	18.5862	0.2179	-0.0010	0.9760	-0.19736	-0.13565	-0.31686	-0.12354
569.0583	83.4242	283.4832	17.4718	0.2806	-0.0008	0.9598	-0.16963	-0.10033	-0.32043	-0.08595
577.2699	81.2720	280.8113	14.5355	0.3444	-0.0006	0.9388	-0.12492	-0.05931	-0.29836	-0.03972
583.6910	79.2957	278.2270	11.2797	0.4087	-0.0011	0.9127	-0.06926	-0.03066	-0.29132	-0.00761
588.6533	77.5908	275.8064	8.4283	0.4745	-0.0008	0.8803	-0.00371	0.00599	-0.29130	0.02365
592.4703	76.1708	273.5819	6.2176	0.5385	-0.0003	0.8426	0.05368	0.05911	-0.29771	0.06648
595.4205	75.0135	271.5622	4.6134	0.5960	-0.0013	0.8030	0.09545	0.12046	-0.28183	0.12244
597.7031	74.0826	269.7151	3.4573	0.6672	0.0002	0.7449	0.10855	0.15198	-0.31511	0.15960
599.4744	73.3332	268.0272	2.6180	0.7161	0.0003	0.6980	0.13093	0.18459	-0.28110	0.20581
600.8649	72.7330	266.4915	2.0302	0.7694	-0.0002	0.6387	0.12186	0.17988	-0.28636	0.20410
601.9401	72.2657	265.0615	1.6093	0.8312	0.0003	0.5560	0.08030	0.14760	-0.31349	0.16473
602.7681	71.9018	263.7249	1.2991	0.8702	0.0004	0.4926	-0.00411	0.08804	-0.27274	0.09577
603.4148	71.6132	262.4876	1.0601	0.9030	-0.0005	0.4296	-0.14932	-0.02386	-0.23985	-0.03595
603.8933	71.4018	261.3291	0.8869	0.9448	-0.0001	0.3278	-0.33598	-0.18720	-0.27091	-0.26619
604.2188	71.2652	260.2377	0.7494	0.9710	-0.0001	0.2390	-0.39800	-0.27291	-0.21593	-0.43350
604.4330	71.1810	259.2202	0.6414	0.9855	-0.0004	0.1698	-0.15920	-0.09592	-0.21583	-0.34463
604.5715	71.1305	258.2771	0.5525	0.9929	-0.0008	0.1187	0.17782	0.18772	-0.06943	-0.03132
604.6582	71.1019	257.4124	0.4718	0.9969	-0.0012	0.0786	0.43318	0.40420	-0.27384	0.21585

pylon top aft of plate

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
545.9979	87.8095	228.2664	73.4441	0.0753	0.9972	-0.0026	-0.26528	-0.19788	-0.66882	-0.13638
558.2789	86.4119	230.1908	54.4840	0.1576	0.9875	-0.0006	-0.23606	-0.17187	-0.70698	-0.08755
568.4683	84.4716	232.4404	38.9483	0.2228	0.9749	0.0004	-0.21157	-0.15467	-0.67384	-0.06002
576.6405	82.3940	234.7827	27.1004	0.2751	0.9614	0.0011	-0.14344	-0.09670	-0.54344	-0.00526
583.0624	80.4205	237.0826	18.5949	0.3162	0.9487	0.0015	-0.08408	-0.04268	-0.43312	0.03709
588.0476	78.6725	239.2639	12.7105	0.3481	0.9375	0.0018	-0.03802	0.00003	-0.34925	0.06552
591.9005	77.1863	241.2894	8.7405	0.3730	0.9278	0.0018	0.00900	0.04285	-0.27943	0.09571
594.8912	75.9527	243.1437	6.0903	0.3898	0.9209	0.0014	0.05641	0.08670	-0.22250	0.12872
597.2170	74.9438	244.8518	4.2966	0.4051	0.9143	0.0031	0.08931	0.11800	-0.18981	0.15168
599.0348	74.1188	246.4242	3.0634	0.4182	0.9083	0.0034	0.12101	0.14767	-0.15815	0.17644
600.4702	73.4469	247.8631	2.2133	0.4255	0.9049	0.0025	0.14792	0.17312	-0.13955	0.20061
601.5916	72.9131	249.2087	1.6092	0.4316	0.9021	0.0008	0.16718	0.19190	-0.13705	0.22123
602.4689	72.4878	250.4760	1.1741	0.4416	0.8972	-0.0006	0.19321	0.21704	-0.13511	0.25106
603.1636	72.1424	251.6568	0.8459	0.4517	0.8922	-0.0006	0.22789	0.24940	-0.14117	0.29194
603.6888	71.8774	252.7670	0.5977	0.4548	0.8906	-0.0024	0.26839	0.28599	-0.17880	0.33870
604.0621	71.6891	253.8209	0.4037	0.4516	0.8922	-0.0004	0.31976	0.33171	-0.19675	0.39262
604.3241	71.5574	254.8129	0.2521	0.4456	0.8953	0.0005	0.37753	0.38036	-0.20974	0.43808
604.5088	71.4644	255.7392	0.1324	0.4450	0.8956	0.0016	0.42706	0.42036	-0.15756	0.46466
604.6383	71.3975	256.5922	0.0385	0.4478	0.8942	0.0035	0.49223	0.47758	-0.21655	0.45160
545.7231	87.8423	233.8326	72.7780	0.0733	0.9973	-0.0018	-0.24038	-0.17874	-0.66652	-0.09593
557.5414	86.5338	235.0736	57.5789	0.1530	0.9882	-0.0016	-0.18139	-0.12712	-0.72109	-0.02421
567.4364	84.7054	236.6692	43.4304	0.2165	0.9763	-0.0010	-0.11772	-0.07927	-0.61985	0.02078
575.4548	82.7274	238.4007	31.7903	0.2680	0.9634	-0.0005	-0.04669	-0.01921	-0.46541	0.06607
581.8199	80.8269	240.1535	22.8518	0.3088	0.9511	-0.0003	-0.00562	0.01943	-0.37282	0.09067
586.8115	79.1235	241.8580	16.2961	0.3409	0.9401	-0.0002	0.01265	0.03898	-0.32258	0.09916
590.7106	77.6575	243.4746	11.6446	0.3661	0.9306	-0.0004	0.03112	0.05801	-0.28256	0.10857
593.7658	76.4240	244.9818	8.3857	0.3850	0.9229	-0.0001	0.05540	0.08216	-0.24427	0.12368
596.1692	75.4013	246.3898	6.0986	0.3996	0.9167	0.0004	0.07656	0.10424	-0.21622	0.13715
598.0745	74.5546	247.7040	4.4749	0.4133	0.9106	0.0008	0.10140	0.12916	-0.18797	0.15567
599.5961	73.8539	248.9223	3.3042	0.4228	0.9062	0.0014	0.12982	0.15699	-0.16820	0.17952
600.8097	73.2851	250.0708	2.4550	0.4268	0.9043	-0.0020	0.15944	0.18529	-0.15960	0.20720
601.7880	72.8214	251.1640	1.8313	0.4355	0.9002	-0.0034	0.18939	0.21354	-0.15403	0.23843
602.5808	72.4355	252.1943	1.3408	0.4462	0.8950	-0.0015	0.22767	0.24886	-0.14065	0.28017
603.2049	72.1235	253.1704	0.9587	0.4512	0.8924	-0.0003	0.27401	0.29051	-0.13138	0.32988
603.6850	71.8795	254.1066	0.6566	0.4517	0.8922	0.0026	0.32771	0.33789	-0.12769	0.38429
604.0583	71.6898	255.0006	0.4132	0.4471	0.8945	0.0007	0.38879	0.38987	-0.17801	0.43346
604.3537	71.5417	255.8445	0.2171	0.4469	0.8946	0.0004	0.44082	0.43574	-0.15945	0.47387
604.5879	71.4227	256.6259	0.0626	0.4504	0.8928	0.0029	0.51302	0.49133	-0.21140	0.46858
545.5417	87.8642	239.5533	71.7991	0.0718	0.9974	-0.0012	-0.29398	-0.22397	-0.84950	-0.11001
556.9553	86.6322	240.3485	57.5742	0.1492	0.9888	-0.0016	-0.26390	-0.19664	-0.95164	-0.05412
566.4685	84.9225	241.4255	44.6205	0.2103	0.9776	-0.0013	-0.19870	-0.14637	-0.79007	-0.02383
574.2367	83.0645	242.6269	33.6146	0.2602	0.9656	-0.0010	-0.11470	-0.07255	-0.55805	0.01581
580.4712	81.2608	243.8711	24.8300	0.3002	0.9539	-0.0010	-0.05367	-0.01488	-0.40693	0.04719
585.4221	79.6222	245.1060	18.1495	0.3321	0.9432	-0.0010	-0.01831	0.01955	-0.32765	0.06660
589.3423	78.1909	246.2996	13.2459	0.3572	0.9340	-0.0013	0.01024	0.04632	-0.27739	0.08423
592.4551	76.9658	247.4335	9.6972	0.3781	0.9258	-0.0005	0.03707	0.07103	-0.24119	0.10209
594.9413	75.9316	248.5083	7.1450	0.3921	0.9199	-0.0011	0.06461	0.09653	-0.21122	0.12107
596.9447	75.0620	249.5254	5.2939	0.4063	0.9137	-0.0005	0.09103	0.12098	-0.18927	0.14052
598.5692	74.3281	250.4824	3.9262	0.4182	0.9084	0.0007	0.12102	0.14881	-0.17468	0.16494
599.8947	73.7170	251.3925	2.9227	0.4207	0.9072	-0.0032	0.15541	0.18042	-0.16703	0.19541
600.9905	73.2072	252.2645	2.1764	0.4279	0.9038	-0.0034	0.18330	0.20649	-0.16758	0.22284
601.8982	72.7729	253.0939	1.5841	0.4389	0.8985	0.0002	0.21889	0.23914	-0.16216	0.25904
602.6404	72.4057	253.8846	1.1217	0.4462	0.8949	0.0027	0.26326	0.27893	-0.15862	0.30297
603.2471	72.0986	254.6453	0.7619	0.4505	0.8928	0.0044	0.31210	0.32198	-0.15332	0.34934
603.7512	71.8433	255.3741	0.4749	0.4475	0.8943	0.0001	0.36919	0.37075	-0.16700	0.39351
604.1755	71.6310	256.0627	0.2461	0.4485	0.8938	-0.0010	0.41867	0.41434	-0.14768	0.42764
604.5304	71.4517	256.6973	0.0695	0.4532	0.8914	0.0016	0.47944	0.45943	-0.17602	0.40895
545.4229	87.8787	245.3448	70.8895	0.0708	0.9975	-0.0008	-0.31527	-0.24427	-0.97888	-0.10741
556.5295	86.7036	245.8236	56.5242	0.1464	0.9892	-0.0011	-0.30083	-0.22937	-1.12662	-0.05769
565.7042	85.0907	246.4877	44.2910	0.2052	0.9787	-0.0009	-0.22775	-0.17166	-0.90094	-0.03597
573.2260	83.3376	247.2398	33.8805	0.2535	0.9673	-0.0006	-0.13569	-0.08862	-0.59801	-0.00236
579.3151	81.6234	248.0298	25.4231	0.2925	0.9563	-0.0005	-0.06905	-0.02380	-0.40345	0.02826
584.2049	80.0484	248.8256	18.8606	0.3240	0.9461	-0.0004	-0.02941	0.01536	-0.30908	0.05058
588.1262	78.6536	249.6065	13.9390	0.3490	0.9371	-0.0005	-0.00057	0.04212	-0.25913	0.06955
591.2818	77.4410	250.3601	10.3014	0.3707	0.9288	0.0000	0.02362	0.06356	-0.22740	0.08640
593.8394	76.3996	251.0843	7.6347	0.3851	0.9229	-0.0008	0.04965	0.08626	-0.20099	0.10427
595.9319	75.5093	251.7783	5.6688	0.3995	0.9167	-0.0003	0.07514	0.10868	-0.18161	0.12222
597.6555	74.7449	252.4400	4.1986	0.4126	0.9109	0.0002	0.10531	0.13566	-0.16801	0.14519
599.0881	74.0940	253.0750	3.1063	0.4158	0.9095	-0.0025	0.14147	0.16801	-0.15945	0.17477
600.2932	73.5387	253.6865	2.2850	0.4233	0.9060	-0.0008	0.17272	0.19633	-0.15686	0.20251
601.3090	73.0566	254.2716	1.6400	0.4340	0.9009	0.0031	0.21284	0.23227	-0.15006	0.23953
602.1627	72.6387	254.8312	1.1408	0.4420	0.8970	0.0048	0.26106	0.27497	-0.14540	0.28370
602.8845	72.2779	255.3681	0.7587	0.4478	0.8941	0.0034	0.31363	0.32104	-0.14062	0.33103
603.5026	71.9681	255.8797	0.4618	0.4470	0.8945	-0.0016	0.37375	0.37246	-0.15680	0.37727
604.0344	71.7025	256.3588	0.2329	0.4497	0.8932	-0.0023	0.42410	0.41719	-0.15118	0.41648
604.4856	71.4744	256.7941	0.0638	0.4547	0.8906	0.0001	0.50358	0.46994	-0.18292	0.41200
545.3540	87.8871	251.1664	70.2674	0.0702	0.9975	-0.0004	-0.32312	-0.25679	-1.07178	-0.10373
556.2710	86.7466	251.3929	55.5680	0.1448	0.9895	-0.0006	-0.32690	-0.25617	-1.26132	-0.06507
565.2228	85.1944	251.7099	43.6841	0.2020	0.9794	-0.0004	-0.25527	-0.19870	-0.98950	-0.05558
572.5732	83.5096	252.0711	33.6549	0.2492	0.9685	-0.0002	-0.16168	-0.11103	-0.63426	-0.02616
578.5554	81.8554	252.4535	25.4619	0.2876	0.9578	0.0000	-0.09117	-0.03941	-0.40598	0.00819
583.3950	80.3245	252.8420	19.0434	0.3187	0.9479	0.0001	-0.04701	0.00597	-0.29869	0.03577
587.3100	78.9561	253.2269	14.1715	0.3437	0.9391	0.0002	-0.01620	0.03532	-0.24949	0.05744
590.4912	77.7544	253.6021	10.5280	0.3650	0.9310	0.0001	0.00890	0.05704	-0.22190	0.07528
593.0964	76.7101	253.9663	7.8243	0.3806	0.9247	-0.0004	0.03481	0.07823	-0.20100	0.09197
595.2503	75.8055	254.3185	5.8094	0.3951	0.9186	-0.0001	0.06205	0.10049	-0.18521	0.10933
597.0450	75.0204	254.6573	4.2922	0.4076	0.9132	-0.0005	0.09374	0.12713	-0.17382	0.13109
598.5541	74.3413	254.9846	3.1549	0.4138	0.9104	-0.0010	0.12918	0.15746	-0.16554	0.15750
599.8361	73.7513	255.3009	2.2946	0.4229	0.9062	0.0017	0.16380	0.18743	-0.16119	0.18525
600.9291	73.2339	255.6044	1.6260	0.4322	0.9018	0.0042	0.20663	0.22448	-0.15632	0.22100
601.8621	72.7815	255.8951	1.1135	0.4390	0.8985	0.0035	0.25450	0.26577	-0.15566	0.26078
602.6632	72.3868	256.1729	0.7259	0.4442	0.8959	0.0001	0.30561	0.30945	-0.15428	0.30184
603.3556	72.0430	256.4357	0.4319	0.4463	0.8949	-0.0033	0.36138	0.35636	-0.16058	0.34028
603.9536	71.7441	256.6791	0.2124	0.4503	0.8929	-0.0029	0.41381	0.39968	-0.15240	0.37163
604.4606	71.4873	256.8972	0.0567	0.4554	0.8903	-0.0011	0.48020	0.44420	-0.15599	0.34766
545.3313	87.8900	256.9989	70.0493	0.0700	0.9975	0.0000	-0.31564	-0.25617	-1.13480	-0.08711
556.1844	86.7609	256.9989	55.2036	0.1442	0.9895	0.0000	-0.33473	-0.27141	-1.34843	-0.06488
565.0592	85.2292	256.9989	43.4215	0.2010	0.9796	0.0000	-0.26507	-0.21550	-1.04982	-0.06668
572.3491	83.5677	256.9989	33.5220	0.2477	0.9688	0.0000	-0.16984	-0.12597	-0.66262	-0.04239
578.2927	81.9343	256.9989	25.4262	0.2859	0.9583	0.0000	-0.09684	-0.04829	-0.41607	-0.00394
583.1134	80.4189	256.9989	19.0658	0.3168	0.9485	0.0000	-0.05150	0.00335	-0.30422	0.02994

587.0250	79.0599	256.9989	14.2204	0.3420	0.9397	0.0000	-0.02192	0.03486	-0.25760	0.05459
590.2146	77.8627	256.9988	10.5821	0.3628	0.9319	0.0000	0.00111	0.05567	-0.23330	0.07226
592.8365	76.8177	256.9989	7.8709	0.3791	0.9253	0.0000	0.02549	0.07463	-0.21495	0.08673
595.0122	75.9080	256.9989	5.8430	0.3936	0.9193	0.0000	0.05295	0.09549	-0.19976	0.10200
596.8325	75.1158	256.9989	4.3124	0.4054	0.9141	0.0000	0.08433	0.12026	-0.18785	0.12086
598.3693	74.4264	256.9989	3.1615	0.4138	0.9104	0.0000	0.11920	0.14872	-0.17764	0.14425
599.6789	73.8231	256.9989	2.2893	0.4239	0.9057	0.0000	0.15598	0.17928	-0.17086	0.17082
600.7998	73.2926	256.9989	1.6142	0.4322	0.9018	0.0000	0.19860	0.21499	-0.16436	0.20259
601.7615	72.8284	256.9989	1.0987	0.4376	0.8992	0.0000	0.24514	0.25384	-0.16199	0.23642
602.5908	72.4227	256.9989	0.7105	0.4417	0.8972	-0.0001	0.29628	0.29612	-0.15713	0.27223
603.3087	72.0675	256.9989	0.4189	0.4455	0.8953	-0.0001	0.35611	0.34444	-0.15784	0.30895
603.9284	71.7573	256.9989	0.2039	0.4501	0.8930	0.0000	0.41470	0.39282	-0.14787	0.34405
604.4529	71.4912	256.9990	0.0539	0.4552	0.8904	0.0000	0.51747	0.46130	-0.17319	0.34939
545.3541	87.8872	262.8315	70.2679	0.0702	0.9975	0.0004	-0.27936	-0.22696	-1.15990	-0.05735
556.2711	86.7467	262.6050	55.5678	0.1448	0.9895	0.0005	-0.31189	-0.25391	-1.37832	-0.04355
565.2228	85.1944	262.2880	43.6839	0.2020	0.9794	0.0004	-0.25072	-0.19843	-1.07774	-0.04172
572.5732	83.5096	261.9267	33.6554	0.2492	0.9685	0.0002	-0.16397	-0.11821	-0.68844	-0.01971
578.5554	81.8553	261.5443	25.4620	0.2876	0.9578	0.0000	-0.09412	-0.04874	-0.44143	0.00763
583.3950	80.3245	261.1558	19.0431	0.3186	0.9479	-0.0001	-0.04925	0.00296	-0.32944	0.03376
587.3100	78.9561	260.7709	14.1717	0.3437	0.9391	-0.0002	-0.02101	0.03674	-0.28283	0.05641
590.4912	77.7545	260.3956	10.5287	0.3650	0.9310	-0.0001	-0.00005	0.05800	-0.25858	0.07364
593.0965	76.7101	260.0315	7.8242	0.3807	0.9247	0.0004	0.02369	0.07625	-0.23987	0.08710
595.2503	75.8055	259.6793	5.8094	0.3951	0.9186	0.0001	0.05065	0.09570	-0.22368	0.10080
597.0448	75.0204	259.3405	4.2924	0.4076	0.9132	0.0005	0.08014	0.11783	-0.21002	0.11689
598.5540	74.3413	259.0132	3.1549	0.4139	0.9103	0.0010	0.11307	0.14370	-0.19687	0.13710
599.8361	73.7513	258.6970	2.2947	0.4229	0.9062	-0.0017	0.14640	0.17024	-0.18803	0.15846
600.9291	73.2339	258.3934	1.6261	0.4322	0.9018	-0.0042	0.18292	0.19930	-0.17809	0.18118
601.8621	72.7815	258.1028	1.1137	0.4389	0.8985	-0.0036	0.22377	0.23141	-0.17140	0.20487
602.6632	72.3869	257.8250	0.7258	0.4441	0.8960	-0.0001	0.27308	0.26980	-0.16217	0.23191
603.3556	72.0431	257.5623	0.4318	0.4465	0.8948	0.0034	0.33413	0.31763	-0.15711	0.26422
603.9535	71.7441	257.3188	0.2124	0.4503	0.8929	0.0030	0.41014	0.37831	-0.15006	0.30595
604.4606	71.4873	257.1007	0.0567	0.4554	0.8903	0.0011	0.49638	0.44826	-0.14933	0.31090
545.4229	87.8788	268.6531	70.8902	0.0708	0.9975	0.0008	-0.22580	-0.19955	-1.11931	-0.06160
556.5296	86.7038	268.1743	56.5243	0.1464	0.9892	0.0011	-0.25899	-0.22332	-1.31574	-0.04701
565.7042	85.0908	267.5102	44.2912	0.2052	0.9787	0.0009	-0.20176	-0.14984	-1.03766	-0.02538
573.2260	83.3376	266.7581	33.8806	0.2535	0.9673	0.0006	-0.13338	-0.06048	-0.67634	0.02509
579.3151	81.6233	265.9680	25.4233	0.2926	0.9562	0.0005	-0.08165	-0.00473	-0.44806	0.06579
584.2049	80.0483	265.1722	18.8611	0.3240	0.9461	0.0004	-0.04429	0.02506	-0.34431	0.07753
588.1262	78.6536	264.3913	13.9390	0.3490	0.9371	0.0004	-0.01828	0.04732	-0.29986	0.07959
591.2818	77.4410	263.6378	10.3014	0.3707	0.9288	0.0000	0.00168	0.06502	-0.27665	0.08511
593.8394	76.3996	262.9136	7.6347	0.3852	0.9228	0.0008	0.02549	0.08176	-0.25721	0.09430
595.9318	75.5093	262.2195	5.6687	0.3995	0.9167	0.0003	0.05217	0.09961	-0.23996	0.10650
597.6553	74.7449	261.5578	4.1988	0.4126	0.9109	-0.0002	0.07972	0.11901	-0.22479	0.12001
599.0879	74.0940	260.9229	3.1064	0.4158	0.9095	0.0025	0.10728	0.13991	-0.20630	0.13491
600.2931	73.5387	260.3114	2.2852	0.4233	0.9060	0.0008	0.13226	0.15916	-0.19487	0.14787
601.3089	73.0567	259.7264	1.6398	0.4340	0.9009	-0.0032	0.15832	0.17863	-0.18075	0.15888
602.1627	72.6387	259.1668	1.1409	0.4419	0.8970	-0.0048	0.19024	0.20121	-0.16889	0.16941
602.8845	72.2780	258.6298	0.7587	0.4477	0.8942	-0.0033	0.23549	0.23369	-0.15406	0.18779
603.5025	71.9682	258.1182	0.4619	0.4472	0.8944	0.0015	0.30362	0.28416	-0.14709	0.21802
604.0343	71.7025	257.6391	0.2330	0.4495	0.8933	0.0023	0.39125	0.35395	-0.13232	0.27299
604.4856	71.4744	257.2039	0.0638	0.4547	0.8906	-0.0001	0.53572	0.46051	-0.18499	0.32078
545.5417	87.8643	274.4446	71.8002	0.0718	0.9974	0.0013	-0.20806	-0.19779	-0.98034	-0.09507
556.9553	86.6325	273.6495	57.5730	0.1492	0.9888	0.0016	-0.22643	-0.20825	-1.13113	-0.07472
566.4684	84.9226	272.5725	44.6208	0.2103	0.9776	0.0013	-0.15118	-0.13599	-0.89846	-0.04707
574.2367	83.0646	271.3710	33.6151	0.2602	0.9656	0.0010	-0.07018	-0.03518	-0.60086	0.00624
580.4712	81.2608	270.1268	24.8303	0.3002	0.9539	0.0010	-0.03577	0.04713	-0.41816	0.07418
585.4221	79.6222	268.8919	18.1492	0.3321	0.9433	0.0010	-0.02076	0.08608	-0.33673	0.12554
589.3422	78.1910	267.6982	13.2460	0.3572	0.9340	0.0013	-0.00349	0.09207	-0.30124	0.13873
592.4551	76.9659	266.5644	9.6970	0.3781	0.9258	0.0005	0.01732	0.09558	-0.28132	0.13237
594.9411	75.9316	265.4896	7.1451	0.3922	0.9199	0.0011	0.04276	0.10576	-0.26359	0.13068
596.9446	75.0620	264.4724	5.2939	0.4063	0.9138	0.0005	0.06921	0.12081	-0.24618	0.13774
598.5691	74.3281	263.5155	3.9261	0.4182	0.9084	-0.0007	0.09320	0.13567	-0.22987	0.14606
599.8946	73.7171	262.6054	2.9227	0.4207	0.9072	0.0032	0.11149	0.14847	-0.20867	0.15196
600.9905	73.2073	261.7334	2.1762	0.4279	0.9038	0.0034	0.12243	0.15571	-0.19553	0.15187
601.8980	72.7730	260.9040	1.5842	0.4389	0.8985	-0.0002	0.12886	0.15847	-0.17958	0.14407
602.6403	72.4057	260.1133	1.1217	0.4462	0.8949	-0.0027	0.13786	0.15958	-0.16557	0.12942
603.2470	72.0987	259.3527	0.7619	0.4505	0.8928	-0.0043	0.17216	0.17757	-0.14849	0.12519
603.7512	71.8433	258.6239	0.4749	0.4477	0.8942	-0.0002	0.24700	0.23021	-0.14144	0.15396
604.1755	71.6310	257.9352	0.2461	0.4486	0.8937	0.0011	0.36990	0.33350	-0.12847	0.23682
604.5304	71.4517	257.3006	0.0695	0.4533	0.8914	-0.0014	0.49513	0.44609	-0.15016	0.29900
545.7232	87.8424	280.1653	72.7779	0.0732	0.9973	0.0018	-0.21807	-0.18765	-0.74804	-0.10832
557.5414	86.5339	278.9243	57.5789	0.1530	0.9882	0.0017	-0.21656	-0.17714	-0.84038	-0.07358
567.4364	84.7054	277.3288	43.4312	0.2165	0.9763	0.0010	-0.14777	-0.12226	-0.66464	-0.04156
575.4548	82.7274	275.5973	31.7901	0.2680	0.9634	0.0005	-0.04775	-0.05391	-0.45226	-0.00625
581.8199	80.8269	273.8444	22.8523	0.3088	0.9511	0.0003	0.01704	0.01978	-0.33305	0.03073
586.8115	79.1235	272.1399	16.2962	0.3409	0.9401	0.0002	0.02646	0.09939	-0.28407	0.09357
590.7105	77.6575	270.5233	11.6451	0.3661	0.9306	0.0004	0.02530	0.14037	-0.26432	0.15876
593.7657	76.4241	269.0161	8.3856	0.3850	0.9229	0.0000	0.04004	0.14129	-0.25044	0.18399
596.1691	75.4013	267.6081	6.0989	0.3996	0.9167	-0.0004	0.06706	0.13948	-0.24238	0.17849
598.0744	74.5546	266.2939	4.4752	0.4133	0.9106	-0.0009	0.09469	0.14884	-0.22801	0.17764
599.5961	73.8539	265.0757	3.3046	0.4228	0.9062	-0.0014	0.11643	0.16007	-0.21416	0.17972
600.8097	73.2851	263.9272	2.4553	0.4268	0.9043	0.0020	0.12725	0.16623	-0.19872	0.17790
601.7879	72.8215	262.8340	1.8313	0.4354	0.9002	0.0034	0.12352	0.16307	-0.18410	0.16573
602.5808	72.4356	261.8037	1.3410	0.4461	0.8950	0.0014	0.10652	0.14818	-0.16404	0.13891
603.2049	72.1235	260.8275	0.9587	0.4512	0.8924	0.0003	0.08909	0.12731	-0.14774	0.09764
603.6849	71.8795	259.8913	0.6566	0.4517	0.8922	-0.0025	0.09799	0.12268	-0.12254	0.07119
604.0583	71.6899	258.9974	0.4132	0.4471	0.8945	-0.0008	0.17491	0.16509	-0.11832	0.08147
604.3537	71.5416	258.1534	0.2172	0.4467	0.8947	-0.0005	0.32966	0.28039	-0.08919	0.18465
604.5879	71.4227	257.3721	0.0626	0.4502	0.8929	-0.0030	0.54125	0.45775	-0.20011	0.30683
545.9979	87.8095	285.7315	73.4446	0.0753	0.9972	0.0027	-0.24104	-0.17859	-0.59843	-0.13985
558.2789	86.4119	283.8071	54.4843	0.1576	0.9875	0.0007	-0.21000	-0.14071	-0.62976	-0.08886
568.4683	84.4716	281.5576	38.9483	0.2228	0.9749	-0.0004	-0.16077	-0.08671	-0.52160	-0.03966
576.6404	82.3940	279.2153	27.1005	0.2751	0.9614	-0.0011	-0.08301	-0.03565	-0.39841	0.00848
583.0624	80.4205	276.9154	18.5956	0.3162	0.9487	-0.0016	0.01450	-0.00081	-0.33138	0.03319
588.0476	78.6725	274.7340	12.7102	0.3481	0.9375	-0.0019	0.07741	0.06624	-0.29816	0.07129
591.9005	77.1863	272.7085	8.7402	0.3730	0.9278	-0.0018	0.09414	0.14700	-0.27747	0.14123
594.8911	75.9527	270.8543	6.0902	0.3899	0.9209	-0.0014	0.10728	0.18657	-0.25423	0.20379
597.2169	74.9438	269.1462	4.2967	0.4051	0.9143	-0.0031	0.12867	0.19384	-0.23816	0.22507
599.0347	74.1188	267.5738	3.0632	0.4182	0.9083	-0.0034	0.15333	0.20227	-0.21451	0.23252
600.4702	73.4469	266.1349	2.2134	0.4255	0.9050	-0.0025	0.16832	0.20886	-0.19301	0.23324
601.5916	72.9131	264.7893	1.6091	0.4315	0.9021	-0.0009	0.16394	0.20627	-0.17685	0.22444
602.4689	72.4878	263.5220	1.1741	0.4416	0.8972	0.0006	0.13609	0.18590	-0.16078	0.19557
603.1636	72.1425	262.3412	0.8459	0.4518	0.8921	0.0007	0.07361	0.13815	-0.14319	0.13504
603.6887	71.8774	261.2309	0.5977	0.4548	0.8906	0.0024	-0.00163	0.06507	-0.13472	0.03398
604.0620	71.6892	260.1771	0.4037	0.4515	0.8922	0.0004	0.00271	0.03966	-0.11623	-0.03274
604.3241	71.5574	259.1851	0.2521	0.4455	0.8953	-0.0006	0.12624	0.12126	-0.12376	0.01636

604.5088	71.4644	258.2587	0.1324	0.4448	0.8956	-0.0016	0.33302	0.30751	-0.08635	0.18491
604.6383	71.3975	257.4057	0.0385	0.4478	0.8941	-0.0035	0.48977	0.45239	-0.14052	0.31434

plate bottom lower

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
385.9609	82.4126	217.8186	8.3283	0.1564	-0.9877	0.0000	-0.19801	-0.11300	0.45957	0.06584
387.8985	82.7258	217.3028	9.6736	0.1647	-0.9863	0.0043	0.10807	0.16179	0.38586	0.24539
389.7552	83.0078	216.1161	8.9212	0.1340	-0.9910	-0.0021	0.18839	0.28446	0.48730	0.30984
392.1973	83.1760	214.1534	16.4212	0.0338	-0.9994	0.0021	0.24539	0.32738	0.61137	0.33978
394.8946	83.2657	211.9948	10.9266	0.0349	-0.9994	0.0000	0.13424	0.23005	0.51811	0.19752
396.8249	83.3331	210.5386	7.6188	0.0349	-0.9994	0.0000	0.12478	0.21978	0.55995	0.16887
398.2550	83.3831	209.5458	5.5178	0.0349	-0.9994	0.0000	0.12264	0.22102	0.56050	0.15701
399.3325	83.4207	208.8768	4.1605	0.0349	-0.9994	0.0000	0.11506	0.21687	0.56409	0.14241
400.1663	83.4498	208.4454	3.3097	0.0349	-0.9994	0.0000	0.11020	0.21332	0.56134	0.13001
400.8302	83.4730	208.1575	2.7637	0.0349	-0.9994	0.0000	0.10743	0.21185	0.56076	0.12379
401.4498	83.4947	207.8707	3.1957	0.0349	-0.9994	0.0000	0.10490	0.21071	0.55991	0.11918
402.1217	83.5181	207.5155	3.5321	0.0349	-0.9994	0.0000	0.10030	0.20765	0.55792	0.11149
402.8454	83.5434	207.1102	3.8404	0.0349	-0.9994	0.0000	0.09521	0.20375	0.55587	0.10208
403.6298	83.5708	206.6657	4.1635	0.0349	-0.9994	0.0000	0.08943	0.19892	0.55251	0.09118
404.4898	83.6008	206.1857	4.5456	0.0349	-0.9994	0.0000	0.08302	0.19300	0.54846	0.07836
405.4442	83.6341	205.6687	5.0018	0.0349	-0.9994	0.0000	0.07571	0.18581	0.54306	0.06407
406.5224	83.6718	205.1069	5.6274	0.0349	-0.9994	0.0000	0.06695	0.17671	0.53537	0.04801
407.7603	83.7151	204.4904	6.3884	0.0349	-0.9994	0.0000	0.05706	0.16612	0.52712	0.03021
409.2054	83.7655	203.8071	7.4159	0.0349	-0.9994	0.0000	0.04514	0.15276	0.51739	0.00918
410.9237	83.8254	203.0439	8.7364	0.0349	-0.9994	0.0000	0.03317	0.13821	0.51145	-0.01393
412.9940	83.8978	202.2028	10.3693	0.0349	-0.9994	0.0000	0.02021	0.11921	0.49754	-0.04251
415.5306	83.9863	201.3058	12.5099	0.0349	-0.9994	0.0000	0.00961	0.09915	0.48265	-0.07244
418.7141	84.0975	200.4059	15.3644	0.0349	-0.9994	0.0000	-0.00993	0.06772	0.43506	-0.11586
422.7459	84.2383	199.5855	18.7911	0.0349	-0.9994	0.0000	-0.03499	0.02965	0.40836	-0.16819
427.8429	84.4163	199.0494	22.6468	0.0349	-0.9994	0.0000	-0.08256	-0.04460	0.36558	-0.24758
434.2447	84.6399	198.8538	27.0593	0.0349	-0.9994	0.0000	-0.12426	-0.11907	0.35219	-0.30184
442.1165	84.9148	198.7779	31.5179	0.0349	-0.9994	0.0000	-0.14025	-0.15359	0.36242	-0.29656
451.5075	85.2427	198.7051	35.5711	0.0349	-0.9994	0.0000	-0.14034	-0.14833	0.34748	-0.25939
462.3198	85.6203	198.6361	38.6274	0.0349	-0.9994	0.0000	-0.13078	-0.11951	0.30268	-0.20125
474.2533	86.0370	198.5741	40.1719	0.0349	-0.9994	0.0000	-0.11756	-0.08354	0.24738	-0.13857
486.8060	86.4753	198.5225	39.8988	0.0349	-0.9994	0.0000	-0.10959	-0.05709	0.18403	-0.10051
499.3655	86.9140	198.4739	37.7373	0.0349	-0.9994	0.0000	-0.11989	-0.05751	0.07942	-0.09953
509.6034	87.2715	198.3242	22.5367	0.0349	-0.9994	0.0000	-0.12302	-0.08501	0.11701	-0.11114
383.0700	81.9547	221.8530	14.2120	0.1564	-0.9877	0.0000	-0.16946	-0.08549	0.36657	0.05729
386.0531	82.4338	222.0912	11.4913	0.1603	-0.9871	-0.0005	0.20583	0.25629	0.33540	0.33193
388.9658	82.8897	220.9321	9.4873	0.1492	-0.9888	0.0029	0.37012	0.47807	0.35580	0.42697
392.1607	83.1614	218.7207	14.7776	0.0337	-0.9994	-0.0080	0.37389	0.46796	0.47738	0.42176
395.2326	83.2777	216.3162	10.1835	0.0348	-0.9994	0.0001	0.23192	0.33681	0.32828	0.24879
397.2764	83.3489	214.7159	7.3683	0.0349	-0.9994	0.0000	0.19352	0.29594	0.34360	0.18573
398.7501	83.4004	213.6865	5.5579	0.0349	-0.9994	0.0000	0.18455	0.28799	0.34014	0.16723
399.8658	83.4394	213.0636	4.4147	0.0349	-0.9994	0.0000	0.16733	0.27290	0.33448	0.14449
400.7645	83.4707	212.7465	3.8052	0.0349	-0.9994	0.0000	0.15853	0.26384	0.32965	0.12928
401.5232	83.4972	212.5950	3.3171	0.0349	-0.9994	0.0000	0.15311	0.25904	0.32115	0.11829
402.2730	83.5234	212.3875	3.9366	0.0349	-0.9994	0.0000	0.14694	0.25294	0.31448	0.10640
403.1094	83.5526	212.0262	4.3650	0.0349	-0.9994	0.0000	0.13619	0.24231	0.30753	0.09022
404.0038	83.5838	211.5543	4.6813	0.0348	-0.9994	0.0000	0.12396	0.22973	0.30047	0.07180
404.9475	83.6168	211.0129	4.9544	0.0349	-0.9994	0.0000	0.11061	0.21580	0.29247	0.05213
405.9469	83.6517	210.4280	5.2511	0.0349	-0.9994	0.0000	0.09667	0.20096	0.28407	0.03164
407.0182	83.6891	209.8113	5.6098	0.0349	-0.9994	0.0000	0.08184	0.18499	0.27394	0.00989
408.1889	83.7300	209.1625	6.1102	0.0349	-0.9994	0.0000	0.06602	0.16748	0.26157	-0.01377
409.4938	83.7755	208.4753	6.7464	0.0349	-0.9994	0.0000	0.04919	0.14831	0.24820	-0.03922
410.9776	83.8273	207.7406	7.6112	0.0349	-0.9994	0.0000	0.03030	0.12599	0.23313	-0.06780
412.7001	83.8875	206.9487	8.7321	0.0349	-0.9994	0.0000	0.00962	0.10086	0.21774	-0.09888
414.7340	83.9585	206.1007	10.1414	0.0349	-0.9994	0.0000	-0.01523	0.07047	0.19066	-0.13481
417.1840	84.0441	205.2122	11.9872	0.0349	-0.9994	0.0000	-0.04323	0.03621	0.15050	-0.17392
420.2157	84.1500	204.3197	14.4519	0.0349	-0.9994	0.0000	-0.07843	-0.00820	0.09346	-0.22354
424.0309	84.2832	203.4874	17.4160	0.0349	-0.9994	0.0000	-0.11596	-0.05961	0.06420	-0.27920
428.8910	84.4529	202.8636	20.8025	0.0349	-0.9994	0.0000	-0.15979	-0.12470	0.07546	-0.34555
435.1098	84.6701	202.4929	24.6095	0.0349	-0.9994	0.0000	-0.19471	-0.18927	0.12735	-0.39609
442.8990	84.9421	202.2226	28.2012	0.0349	-0.9994	0.0000	-0.20775	-0.22697	0.16963	-0.38575
452.3069	85.2706	201.9665	31.1573	0.0349	-0.9994	0.0000	-0.19699	-0.22175	0.15678	-0.31793
463.2139	85.6515	201.7299	33.0769	0.0349	-0.9994	0.0000	-0.16998	-0.18090	0.09395	-0.21448
475.2861	86.0731	201.5259	33.7154	0.0349	-0.9994	0.0000	-0.14209	-0.13167	0.01014	-0.12998
487.9909	86.5168	201.3643	33.0434	0.0349	-0.9994	0.0000	-0.12442	-0.09970	-0.07558	-0.09261
500.6825	86.9600	201.2218	31.0446	0.0349	-0.9994	0.0000	-0.12405	-0.09675	-0.18673	-0.09431
511.5203	87.3384	200.9188	23.4314	0.0349	-0.9994	0.0000	-0.13330	-0.12647	-0.23009	-0.11596
380.1732	81.4959	225.5797	16.7610	0.1564	-0.9877	0.0000	-0.23749	-0.13449	0.27280	-0.01118
383.7152	82.0572	226.1551	14.4792	0.1566	-0.9877	-0.0001	0.12559	0.18421	0.31624	0.27883
387.2622	82.6316	225.3249	11.9813	0.1648	-0.9863	0.0032	0.35818	0.45836	0.33898	0.43344
391.0410	83.0608	223.3514	16.2525	0.0674	-0.9977	-0.0089	0.41099	0.50842	0.47438	0.46993
394.5096	83.2577	221.0667	11.2105	0.0318	-0.9995	0.0014	0.35550	0.46249	0.42001	0.37448
396.7637	83.3310	219.4771	8.1637	0.0349	-0.9994	0.0000	0.26390	0.37152	0.36852	0.25962
398.3391	83.3860	218.4762	6.1972	0.0349	-0.9994	0.0000	0.26374	0.37058	0.38342	0.24464
399.5063	83.4268	217.9135	4.9788	0.0349	-0.9994	0.0000	0.24184	0.35144	0.36961	0.21604
400.4364	83.4592	217.6817	4.3919	0.0349	-0.9994	0.0000	0.23306	0.34257	0.36916	0.19964
401.2424	83.4874	217.6201	4.0355	0.0348	-0.9994	0.0000	0.22799	0.33853	0.36673	0.18886
402.1047	83.5175	217.4620	4.9673	0.0349	-0.9994	0.0000	0.22074	0.33172	0.36544	0.17546
403.1271	83.5532	217.0738	5.5463	0.0349	-0.9994	0.0000	0.20577	0.31767	0.35978	0.15366
404.2484	83.5923	216.4995	5.8787	0.0349	-0.9994	0.0000	0.18717	0.29944	0.35292	0.12724
405.4297	83.6336	215.8065	6.0768	0.0349	-0.9994	0.0000	0.16628	0.27868	0.34474	0.09872
406.6568	83.6764	215.0508	6.2440	0.0349	-0.9994	0.0000	0.14450	0.25664	0.33624	0.06947
407.9351	83.7211	214.2654	6.4489	0.0349	-0.9994	0.0000	0.12215	0.23370	0.32702	0.03972
409.2861	83.7683	213.4624	6.7721	0.0349	-0.9994	0.0000	0.09928	0.20978	0.31687	0.00931
410.7422	83.8191	212.6416	7.2283	0.0349	-0.9994	0.0000	0.07561	0.18460	0.30660	-0.02206
412.3462	83.8751	211.7963	7.8896	0.0349	-0.9994	0.0000	0.05022	0.15706	0.29537	-0.05572
414.1550	83.9383	210.9183	8.7861	0.0349	-0.9994	0.0000	0.02332	0.12743	0.28256	-0.09164
416.2396	84.0111	210.0059	9.9587	0.0349	-0.9994	0.0000	-0.00607	0.09419	0.26000	-0.13174
418.6997	84.0970	209.0671	11.5198	0.0349	-0.9994	0.0000	-0.03701	0.05759	0.22984	-0.17573
421.6871	84.2013	208.1248	13.6167	0.0349	-0.9994	0.0000	-0.07140	0.01330	0.20489	-0.22848
425.4032	84.3311	207.2226	16.2213	0.0349	-0.9994	0.0000	-0.10854	-0.03943	0.22663	-0.28912
430.1257	84.4960	206.4576	19.3373	0.0349	-0.9994	0.0000	-0.15166	-0.10446	0.30696	-0.35842
436.2080	84.7084	205.8624	22.9158	0.0349	-0.9994	0.0000	-0.19352	-0.17193	0.40997	-0.41841
443.9298	84.9781	205.3454	26.3224	0.0349	-0.9994	0.0000	-0.21481	-0.21466	0.47288	-0.41664
453.3818	85.3081	204.8570	28.9875	0.0349	-0.9994	0.0000	-0.20687	-0.21272	0.45584	-0.34537
464.4316	85.6940	204.4150	30.5215	0.0349	-0.9994	0.0000	-0.17998	-0.17153	0.36992	-0.23009
476.7064	86.1227	204.0472	30.8343	0.0349	-0.9994	0.0000	-0.15286	-0.12205	0.25187	-0.14178
489.6318	86.5741	203.7707	30.0372	0.0349	-0.9994	0.0000	-0.13684	-0.09202	0.12246	-0.10564
502.4848	87.0230	203.5550	28.2609	0.0349	-0.9994	0.0000	-0.13728	-0.09235	-0.03227	-0.10872
513.6780	87.4138	203.3156	23.5007	0.0349	-0.9994	0.0000	-0.14007	-0.11290	-0.09163	-0.12332
377.5617	81.0823	229.4374	19.4551	0.1564	-0.9877	0.0000	-0.27816	-0.16105	0.19537	-0.05005
381.6105	81.7236	230.1952	17.3902	0.1564	-0.9877	0.0000	0.07897	0.14531	0.29589	0.25045

385.5902	82.3632	229.6515	14.8949	0.1614	-0.9869	0.0006	0.37210	0.45786	0.37530	0.45912
389.6640	82.9309	228.1110	18.7449	0.1225	-0.9924	0.0090	0.42104	0.51911	0.41647	0.49844
393.3024	83.2272	226.2423	13.1682	0.0226	-0.9997	-0.0006	0.48593	0.58725	0.53575	0.51752
395.6973	83.2937	224.8613	9.6690	0.0349	-0.9994	0.0000	0.35421	0.45952	0.41051	0.36054
397.3603	83.3518	223.9723	7.3544	0.0349	-0.9994	0.0000	0.36663	0.47253	0.44833	0.35330
398.5795	83.3944	223.4805	5.8991	0.0349	-0.9994	0.0000	0.34115	0.45054	0.43375	0.32127
399.5417	83.4280	223.3015	5.1906	0.0349	-0.9994	0.0000	0.33423	0.44391	0.43664	0.30508
400.3827	83.4574	223.2751	4.8427	0.0348	-0.9994	0.0000	0.32980	0.44123	0.43754	0.29519
401.3207	83.4901	223.1109	6.0514	0.0349	-0.9994	0.0000	0.32166	0.43430	0.43796	0.28024
402.4777	83.5305	222.6472	6.7527	0.0349	-0.9994	0.0000	0.30255	0.41777	0.43304	0.25272
403.7821	83.5761	221.9214	7.0903	0.0349	-0.9994	0.0000	0.27648	0.39410	0.42407	0.21692
405.1778	83.6248	221.0213	7.2185	0.0349	-0.9994	0.0000	0.24555	0.36540	0.41203	0.17617
406.6318	83.6756	220.0328	7.2676	0.0349	-0.9994	0.0000	0.21236	0.33376	0.39764	0.13321
408.1336	83.7280	219.0149	7.3277	0.0349	-0.9994	0.0000	0.17868	0.30085	0.38227	0.08988
409.6932	83.7825	217.9963	7.4826	0.0349	-0.9994	0.0000	0.14499	0.26716	0.36538	0.04650
411.3360	83.8399	216.9844	7.7644	0.0349	-0.9994	0.0000	0.11119	0.23255	0.34782	0.00281
413.1008	83.9015	215.9751	8.2378	0.0349	-0.9994	0.0000	0.07644	0.19596	0.32837	-0.04250
415.0421	83.9693	214.9588	8.9382	0.0349	-0.9994	0.0000	0.04057	0.15708	0.30770	-0.08992
417.2299	84.0457	213.9294	9.9128	0.0349	-0.9994	0.0000	0.00244	0.11407	0.28447	-0.14130
419.7618	84.1341	212.8866	11.2544	0.0349	-0.9994	0.0000	-0.03825	0.06613	0.26830	-0.19723
422.7829	84.2396	211.8408	13.0926	0.0349	-0.9994	0.0000	-0.08349	0.00961	0.27847	-0.26268
426.4944	84.3692	210.8172	15.4664	0.0349	-0.9994	0.0000	-0.13252	-0.05722	0.34257	-0.33767
431.1820	84.5329	209.8767	18.4316	0.0349	-0.9994	0.0000	-0.18444	-0.13512	0.45060	-0.41852
437.2232	84.7439	209.0437	21.9338	0.0349	-0.9994	0.0000	-0.22974	-0.21320	0.54866	-0.48490
444.9551	85.0139	208.2680	25.3588	0.0349	-0.9994	0.0000	-0.25013	-0.26266	0.57056	-0.47716
454.5130	85.3477	207.5326	27.9867	0.0349	-0.9994	0.0000	-0.23577	-0.25522	0.49519	-0.38349
465.7595	85.7404	206.8743	29.4011	0.0349	-0.9994	0.0000	-0.20063	-0.20033	0.35201	-0.24026
478.2911	86.1781	206.3404	29.6103	0.0349	-0.9994	0.0000	-0.16792	-0.14046	0.18989	-0.14217
491.4942	86.6393	205.9577	28.8266	0.0349	-0.9994	0.0000	-0.14941	-0.10799	0.03890	-0.10851
504.5626	87.0955	205.7089	27.2759	0.0349	-0.9994	0.0000	-0.14706	-0.10735	-0.11218	-0.11377
515.9861	87.4944	205.6392	23.1215	0.0349	-0.9994	0.0000	-0.14698	-0.12359	-0.19806	-0.12674
375.2444	80.7153	233.4693	22.4140	0.1564	-0.9877	0.0000	-0.29537	-0.17017	0.13325	-0.06632
379.8568	81.4458	234.3697	20.5566	0.1564	-0.9877	0.0000	0.04829	0.12304	0.28727	0.22865
384.2821	82.1525	234.0888	18.0930	0.1592	-0.9872	0.0003	0.38327	0.46097	0.40516	0.47864
388.5357	82.8122	233.0442	21.0097	0.1491	-0.9888	0.0043	0.45323	0.54782	0.43132	0.53926
392.1601	83.1801	231.7609	15.0697	0.0254	-0.9997	-0.0065	0.57628	0.66786	0.59829	0.62168
394.5709	83.2544	230.7738	11.2019	0.0349	-0.9994	0.0000	0.46488	0.56064	0.47175	0.48290
396.2563	83.3133	230.1164	8.5500	0.0349	-0.9994	0.0000	0.48307	0.58064	0.51107	0.47839
397.4986	83.3567	229.7446	6.8243	0.0349	-0.9994	0.0000	0.46300	0.56447	0.50119	0.45115
398.4847	83.3911	229.6119	5.9307	0.0349	-0.9994	0.0000	0.45963	0.56177	0.50543	0.43714
399.3502	83.4213	229.5729	5.4445	0.0349	-0.9994	0.0000	0.45624	0.56050	0.50826	0.42763
400.3164	83.4551	229.3378	6.7172	0.0349	-0.9994	0.0000	0.44818	0.55415	0.50921	0.41135
401.5162	83.4969	228.7391	7.4394	0.0349	-0.9994	0.0000	0.42675	0.53667	0.50567	0.37951
402.8927	83.5450	227.8126	7.7864	0.0349	-0.9994	0.0000	0.39513	0.50941	0.49555	0.33581
404.3991	83.5976	226.6605	7.9187	0.0349	-0.9994	0.0000	0.35482	0.47386	0.48075	0.28316
406.0004	83.6535	225.3923	7.9566	0.0349	-0.9994	0.0000	0.30916	0.43249	0.46123	0.22516
407.6757	83.7120	224.0909	7.9835	0.0349	-0.9994	0.0000	0.26090	0.38761	0.43985	0.16487
409.4212	83.7730	222.8026	8.0719	0.0349	-0.9994	0.0000	0.21183	0.34077	0.41617	0.10428
411.2499	83.8368	221.5448	8.2629	0.0349	-0.9994	0.0000	0.16312	0.29300	0.39189	0.04421
413.1911	83.9047	220.3173	8.6185	0.0349	-0.9994	0.0000	0.11454	0.24395	0.36652	-0.01591
415.2927	83.9781	219.1102	9.1857	0.0349	-0.9994	0.0000	0.06588	0.19317	0.34491	-0.07691
417.6216	84.0594	217.9125	10.0223	0.0349	-0.9994	0.0000	0.01569	0.13875	0.33417	-0.14079
420.2741	84.1520	216.7157	11.2197	0.0349	-0.9994	0.0000	-0.03649	0.07971	0.35235	-0.20849
423.3928	84.2609	215.5182	12.9028	0.0349	-0.9994	0.0000	-0.09242	0.01259	0.41609	-0.28473
427.1816	84.3932	214.3296	15.1554	0.0349	-0.9994	0.0000	-0.15100	-0.06459	0.53254	-0.37096
431.9339	84.5592	213.1856	18.0612	0.0349	-0.9994	0.0000	-0.20975	-0.15080	0.67117	-0.45955
438.0430	84.7725	212.1045	21.5578	0.0349	-0.9994	0.0000	-0.25911	-0.23408	0.76605	-0.53282
445.8840	85.0463	211.0639	25.0386	0.0349	-0.9994	0.0000	-0.27937	-0.28522	0.75893	-0.52446
455.6244	85.3865	210.0748	27.6884	0.0349	-0.9994	0.0000	-0.25901	-0.27256	0.64147	-0.41377
467.1262	85.7882	209.1978	29.0776	0.0349	-0.9994	0.0000	-0.21670	-0.20883	0.45902	-0.24812
479.9671	86.2367	208.5027	29.2893	0.0349	-0.9994	0.0000	-0.18007	-0.14441	0.26797	-0.14694
493.5025	86.7094	208.0301	28.6115	0.0349	-0.9994	0.0000	-0.16099	-0.11330	0.09459	-0.11772
506.8487	87.1754	207.7949	27.1950	0.0349	-0.9994	0.0000	-0.15790	-0.11441	-0.07293	-0.12396
518.4153	87.5792	207.9462	22.3766	0.0349	-0.9994	0.0000	-0.15126	-0.12510	-0.18128	-0.13030
373.2653	80.4018	237.6608	25.5830	0.1564	-0.9877	0.0000	-0.29956	-0.16982	0.08568	-0.06902
378.5386	81.2370	238.6690	23.8392	0.1564	-0.9877	0.0000	0.03267	0.11527	0.29012	0.21722
383.5236	82.0321	238.6433	21.3878	0.1588	-0.9873	0.0005	0.39818	0.47384	0.42491	0.50100
388.0150	82.7456	238.0888	22.2103	0.1550	-0.9879	0.0005	0.49468	0.58153	0.46592	0.58865
391.5948	83.1431	237.4187	15.7980	0.0399	-0.9992	-0.0011	0.63207	0.71343	0.60950	0.69471
393.9546	83.2329	236.9117	11.6636	0.0349	-0.9994	0.0000	0.56927	0.65265	0.53183	0.60356
395.5979	83.2903	236.5723	8.8443	0.0349	-0.9994	0.0000	0.59452	0.67804	0.56324	0.60537
396.8140	83.3328	236.3721	7.0165	0.0349	-0.9994	0.0000	0.58758	0.67421	0.56420	0.58913
397.7956	83.3670	236.2865	6.0764	0.0349	-0.9994	0.0000	0.59070	0.67810	0.57218	0.58033
398.6618	83.3973	236.1900	5.4360	0.0349	-0.9994	0.0000	0.59043	0.68021	0.58049	0.57267
399.5923	83.4298	235.8293	6.4703	0.0349	-0.9994	0.0000	0.58341	0.67579	0.58344	0.55634
400.7136	83.4689	235.0651	7.0817	0.0349	-0.9994	0.0000	0.56296	0.66059	0.58449	0.52355
402.0038	83.5140	233.9376	7.4490	0.0349	-0.9994	0.0000	0.52984	0.63360	0.57607	0.47639
403.4512	83.5645	232.5517	7.6874	0.0350	-0.9994	0.0000	0.48515	0.59601	0.56300	0.41698
405.0420	83.6201	231.0240	7.8688	0.0349	-0.9994	0.0000	0.43138	0.54946	0.54183	0.34867
406.7604	83.6800	229.4487	8.0369	0.0349	-0.9994	0.0000	0.37198	0.49672	0.51801	0.27480
408.5964	83.7441	227.8840	8.2383	0.0349	-0.9994	0.0000	0.30845	0.43891	0.48923	0.19717
410.5514	83.8124	226.3573	8.5037	0.0349	-0.9994	0.0000	0.24351	0.37817	0.46005	0.11822
412.6422	83.8855	224.8756	8.8889	0.0349	-0.9994	0.0000	0.17737	0.31462	0.42989	0.03867
414.9050	83.9645	223.4329	9.4482	0.0349	-0.9994	0.0000	0.11130	0.24893	0.40828	-0.04091
417.3987	84.0516	222.0175	10.2498	0.0349	-0.9994	0.0000	0.04482	0.18009	0.40846	-0.12155
420.2142	84.1499	220.6162	11.3958	0.0349	-0.9994	0.0000	-0.02241	0.10711	0.45400	-0.20450
423.4916	84.2644	219.2185	13.0208	0.0349	-0.9994	0.0000	-0.09236	0.02622	0.55720	-0.29445
427.4376	84.4022	217.8214	15.2423	0.0349	-0.9994	0.0000	-0.16381	-0.06491	0.70914	-0.39513
432.3524	84.5738	216.4426	18.1570	0.0349	-0.9994	0.0000	-0.23317	-0.16431	0.86185	-0.49535
438.6386	84.7933	215.0962	21.6799	0.0349	-0.9994	0.0000	-0.28921	-0.25816	0.94966	-0.57854
446.6897	85.0745	213.7800	25.1979	0.0349	-0.9994	0.0000	-0.30956	-0.31523	0.90852	-0.57275
456.6900	85.4237	212.5309	27.8623	0.0349	-0.9994	0.0000	-0.28194	-0.29771	0.73746	-0.44138
468.5042	85.8363	211.4357	29.2649	0.0349	-0.9994	0.0000	-0.23117	-0.22311	0.50203	-0.25114
481.7040	86.2974	210.5881	29.5495	0.0349	-0.9994	0.0000	-0.18984	-0.15246	0.27345	-0.14732
495.6250	86.7836	210.0478	29.0433	0.0349	-0.9994	0.0000	-0.16969	-0.12186	0.07825	-0.12233
509.3130	87.2615	209.8718	27.6293	0.0349	-0.9994	0.0000	-0.16588	-0.12428	-0.09780	-0.13047
520.9513	87.6678	210.2638	21.3020	0.0349	-0.9994	0.0000	-0.15445	-0.13112	-0.22739	-0.13296
371.6925	80.1527	241.9697	28.6883	0.1564	-0.9877	0.0000	-0.29411	-0.16194	0.03610	-0.06061
377.7354	81.1098	242.9847	26.5602	0.1564	-0.9877	0.0000	0.03603	0.12455	0.28768	0.22558
383.4319	82.0203	243.1692	24.0624	0.1595	-0.9872	0.0008	0.43360	0.50706	0.43455	0.54544
388.3082	82.7874	243.0301	21.7203	0.1505	-0.9886	-0.0015	0.55697	0.63437	0.50369	0.65935
391.9306	83.1679	242.8658	14.8684	0.0311	-0.9995	0.0069	0.70127	0.77135	0.63480	0.77909
394.2798	83.2443	242.7716	10.5518	0.0349	-0.9994	0.0000	0.65980	0.72919	0.57204	0.70667
395.8844	83.3003	242.7161	7.7532	0.0349	-0.9994	0.0000	0.70249	0.77055	0.61030	0.73014
397.0570	83.3412	242.6693	6.0660	0.0349	-0.9994	0.0000	0.70416	0.77495	0.61823	0.72385
398.0107	83.3745	242.6070	5.3343	0.0349	-0.9994	0.0000	0.71402	0.78620	0.62993	0.72239

398.8369	83.4034	242.4130	4.6503	0.0349	-0.9994	0.0000	0.71669	0.79210	0.64544	0.71791
399.6459	83.4317	241.9051	5.2312	0.0349	-0.9994	0.0000	0.70947	0.78852	0.64922	0.70060
400.5559	83.4634	241.0083	5.6586	0.0348	-0.9994	0.0000	0.69289	0.77776	0.65790	0.67030
401.5938	83.4997	239.7636	6.0485	0.0349	-0.9994	0.0000	0.66194	0.75373	0.65235	0.62330
402.7950	83.5416	238.2589	6.4351	0.0349	-0.9994	0.0000	0.62042	0.72047	0.64628	0.56399
404.1803	83.5900	236.5929	6.8318	0.0349	-0.9994	0.0000	0.56468	0.67394	0.62588	0.49082
405.7537	83.6449	234.8514	7.2423	0.0349	-0.9994	0.0000	0.50126	0.61980	0.60408	0.41048
407.5127	83.7063	233.0928	7.6863	0.0349	-0.9994	0.0000	0.42767	0.55555	0.57180	0.32091
409.4572	83.7742	231.3488	8.1786	0.0349	-0.9994	0.0000	0.34974	0.48558	0.53976	0.22644
411.5981	83.8490	229.6342	8.7657	0.0349	-0.9994	0.0000	0.26638	0.40892	0.50544	0.12748
413.9633	83.9316	227.9497	9.4932	0.0349	-0.9994	0.0000	0.17994	0.32697	0.48216	0.02520
416.6028	84.0238	226.2891	10.4294	0.0349	-0.9994	0.0000	0.09119	0.23973	0.48505	-0.07967
419.5994	84.1284	224.6419	11.6758	0.0349	-0.9994	0.0000	0.00200	0.14773	0.53972	-0.18616
423.0863	84.2502	222.9961	13.3761	0.0349	-0.9994	0.0000	-0.08870	0.04781	0.65684	-0.29708
427.2677	84.3962	221.3435	15.6668	0.0349	-0.9994	0.0000	-0.17901	-0.06240	0.82242	-0.41814
432.4435	84.5770	219.6920	18.6503	0.0349	-0.9994	0.0000	-0.26304	-0.17894	0.98626	-0.53426
439.0137	84.8064	218.0547	22.2106	0.0349	-0.9994	0.0000	-0.32691	-0.28510	1.07138	-0.62697
447.3705	85.0982	216.4474	25.7320	0.0349	-0.9994	0.0000	-0.34566	-0.34701	1.01004	-0.62438
457.7020	85.4590	214.9319	28.4002	0.0349	-0.9994	0.0000	-0.30835	-0.32288	0.80813	-0.47323
469.8790	85.8843	213.6215	29.8598	0.0349	-0.9994	0.0000	-0.24754	-0.23659	0.54179	-0.25762
483.4807	86.3595	212.6340	30.2925	0.0349	-0.9994	0.0000	-0.20174	-0.16080	0.29193	-0.15422
497.8355	86.8608	212.0524	30.0091	0.0349	-0.9994	0.0000	-0.18147	-0.13239	0.08119	-0.13373
511.9276	87.3528	211.9759	28.4611	0.0349	-0.9994	0.0000	-0.17622	-0.13584	-0.10609	-0.14200
523.5802	87.7596	212.6062	19.9658	0.0349	-0.9994	0.0000	-0.15613	-0.13454	-0.25017	-0.13555
370.7352	80.0010	245.7328	22.4208	0.1564	-0.9877	0.0000	-0.28878	-0.15366	-0.01613	-0.05238
377.4753	81.0686	246.6593	20.9134	0.1564	-0.9877	0.0000	0.04407	0.13713	0.25302	0.24140
383.8991	82.0991	247.0115	19.8335	0.1605	-0.9870	0.0007	0.45847	0.53243	0.38936	0.58492
389.2495	82.9006	247.1974	16.0984	0.1319	-0.9912	-0.0086	0.60984	0.68038	0.50815	0.72272
393.0228	83.2287	247.4047	11.0185	0.0149	-0.9998	0.0103	0.74216	0.80502	0.61334	0.83606
395.4758	83.2860	247.6232	7.7602	0.0349	-0.9994	0.0000	0.72836	0.78808	0.58052	0.78998
397.1274	83.3437	247.7875	5.6492	0.0349	-0.9994	0.0000	0.78200	0.84253	0.62724	0.83566
398.3028	83.3848	247.8588	4.4396	0.0349	-0.9994	0.0000	0.79074	0.85555	0.64501	0.84221
399.2362	83.4173	247.8058	4.0799	0.0349	-0.9994	0.0000	0.80252	0.87148	0.65634	0.84857
399.9817	83.4434	247.5140	3.4795	0.0349	-0.9994	0.0000	0.80960	0.88344	0.68484	0.84968
400.5929	83.4648	246.8933	3.6310	0.0349	-0.9994	0.0000	0.80107	0.87811	0.68636	0.82845
401.2086	83.4862	245.9546	3.8883	0.0349	-0.9994	0.0000	0.79274	0.87499	0.70885	0.80372
401.9040	83.5105	244.7267	4.2633	0.0349	-0.9994	0.0000	0.76573	0.85378	0.70616	0.75690
402.7499	83.5401	243.2640	4.7252	0.0349	-0.9994	0.0000	0.73503	0.83079	0.71554	0.70523
403.7958	83.5765	241.6315	5.2551	0.0349	-0.9994	0.0000	0.68391	0.78918	0.70131	0.63195
405.0685	83.6210	239.8921	5.8385	0.0349	-0.9994	0.0000	0.62686	0.74226	0.69037	0.55363
406.5819	83.6738	238.0926	6.4845	0.0349	-0.9994	0.0000	0.55254	0.67962	0.66230	0.45968
408.3470	83.7355	236.2602	7.2041	0.0349	-0.9994	0.0000	0.46955	0.60770	0.63274	0.35684
410.3823	83.8065	234.4106	8.0451	0.0349	-0.9994	0.0000	0.37504	0.52375	0.59706	0.24494
412.7210	83.8882	232.5484	9.0448	0.0349	-0.9994	0.0000	0.27239	0.42974	0.56987	0.12505
415.4162	83.9823	230.6723	10.2684	0.0349	-0.9994	0.0000	0.16203	0.32527	0.56536	-0.00207
418.5509	84.0918	228.7780	11.7989	0.0349	-0.9994	0.0000	0.04870	0.21281	0.60821	-0.13351
422.2551	84.2212	226.8596	13.7651	0.0349	-0.9994	0.0000	-0.06609	0.09063	0.71056	-0.26814
426.7251	84.3773	224.9149	16.2820	0.0349	-0.9994	0.0000	-0.17803	-0.04198	0.86270	-0.41184
432.2462	84.5701	222.9546	19.4243	0.0349	-0.9994	0.0000	-0.27937	-0.17965	1.01532	-0.54951
439.1945	84.8127	221.0004	23.0434	0.0349	-0.9994	0.0000	-0.35309	-0.30226	1.08961	-0.65781
447.9378	85.1181	219.0878	26.5626	0.0349	-0.9994	0.0000	-0.37086	-0.37135	1.01865	-0.66243
458.6564	85.4924	217.3037	29.2702	0.0349	-0.9994	0.0000	-0.32447	-0.34133	0.80506	-0.49425
471.2335	85.9316	215.7861	30.8762	0.0349	-0.9994	0.0000	-0.25498	-0.24459	0.52830	-0.25579
485.2665	86.4219	214.6763	31.5631	0.0349	-0.9994	0.0000	-0.20619	-0.16486	0.27371	-0.15471
500.0874	86.9395	214.0827	31.5543	0.0349	-0.9994	0.0000	-0.18630	-0.13865	0.06008	-0.13865
514.6383	87.4474	214.1358	29.7891	0.0349	-0.9994	0.0000	-0.18058	-0.14364	-0.13112	-0.14800
526.2754	87.8537	214.9826	18.5542	0.0349	-0.9994	0.0000	-0.15802	-0.13854	-0.29059	-0.13742
370.3355	79.9378	248.9043	23.5719	0.1564	-0.9877	0.0000	-0.29150	-0.15404	-0.07711	-0.05208
377.6099	81.0899	249.6555	21.4250	0.1564	-0.9877	0.0000	0.06038	0.15423	0.22158	0.26495
384.6704	82.2247	250.0941	20.0705	0.1611	-0.9869	-0.0009	0.49267	0.56560	0.34778	0.63002
390.4680	83.0113	250.4591	13.8515	0.0961	-0.9953	-0.0085	0.66897	0.73178	0.52633	0.78885
394.4137	83.2714	250.8528	9.0221	0.0208	-0.9998	-0.0013	0.76806	0.82697	0.58171	0.87065
397.0455	83.3409	251.2356	6.0009	0.0349	-0.9994	0.0000	0.78273	0.84059	0.58617	0.87318
398.8267	83.4031	251.5203	4.1336	0.0349	-0.9994	0.0000	0.82683	0.89205	0.62051	0.92584
400.0632	83.4462	251.6561	3.1330	0.0348	-0.9994	0.0000	0.84055	0.91379	0.65091	0.94944
400.9992	83.4789	251.6062	2.9193	0.0349	-0.9994	0.0000	0.85108	0.92554	0.64666	0.95737
401.6483	83.5016	251.2523	2.3790	0.0349	-0.9994	0.0000	0.87191	0.94916	0.69717	0.96893
402.0496	83.5156	250.5822	2.2920	0.0349	-0.9994	0.0000	0.86136	0.93887	0.68963	0.93733
402.3960	83.5277	249.6809	2.4423	0.0350	-0.9994	0.0000	0.86688	0.94777	0.73187	0.92440
402.7887	83.5414	248.5597	2.7657	0.0348	-0.9994	0.0000	0.84061	0.92635	0.72729	0.87147
403.3094	83.5596	247.2436	3.2097	0.0349	-0.9994	0.0000	0.82339	0.91584	0.75373	0.83259
404.0181	83.5843	245.7650	3.7517	0.0348	-0.9994	0.0000	0.77835	0.88007	0.74710	0.75986
404.9569	83.6171	244.1622	4.3742	0.0349	-0.9994	0.0000	0.73115	0.84294	0.74913	0.68647
406.1549	83.6589	242.4645	5.0875	0.0349	-0.9994	0.0000	0.66312	0.78715	0.73155	0.59331
407.6382	83.7107	240.6867	5.9051	0.0349	-0.9994	0.0000	0.58277	0.71943	0.71037	0.48682
409.4416	83.7737	238.8385	6.8926	0.0349	-0.9994	0.0000	0.48516	0.63486	0.67927	0.36533
411.6165	83.8496	236.9189	8.0962	0.0349	-0.9994	0.0000	0.37359	0.53511	0.65109	0.23082
414.2347	83.9410	234.9246	9.5949	0.0349	-0.9994	0.0000	0.24484	0.41608	0.63494	0.07932
417.3978	84.0515	232.8517	11.4687	0.0349	-0.9994	0.0000	0.10646	0.28253	0.65247	-0.08287
421.2492	84.1860	230.6990	13.8313	0.0349	-0.9994	0.0000	-0.03839	0.13335	0.71291	-0.25138
425.9868	84.3515	228.4751	16.7382	0.0349	-0.9994	0.0000	-0.17927	-0.02798	0.81507	-0.42368
431.8754	84.5571	226.2047	20.1825	0.0349	-0.9994	0.0000	-0.30304	-0.19119	0.91963	-0.58359
439.2455	84.8145	223.9304	23.9625	0.0349	-0.9994	0.0000	-0.39018	-0.33244	0.96097	-0.70472
448.4157	85.1347	221.7158	27.5858	0.0349	-0.9994	0.0000	-0.40737	-0.40894	0.87961	-0.71414
459.5467	85.5235	219.6751	30.5017	0.0349	-0.9994	0.0000	-0.35094	-0.37162	0.67884	-0.52858
472.5355	85.9771	217.9700	32.4681	0.0349	-0.9994	0.0000	-0.27152	-0.26180	0.43120	-0.26531
487.0013	86.4825	216.7634	33.5997	0.0349	-0.9994	0.0000	-0.21994	-0.17770	0.20313	-0.16740
502.2856	87.0163	216.1883	33.9472	0.0349	-0.9994	0.0001	-0.20099	-0.15468	0.00536	-0.15494
517.3247	87.5412	216.3858	31.9917	0.0349	-0.9994	0.0000	-0.19388	-0.15935	-0.17931	-0.16271
528.9700	87.9477	217.4071	17.5866	0.0349	-0.9994	0.0000	-0.16273	-0.14400	-0.33139	-0.13986
370.2745	79.9281	252.1032	25.0153	0.1564	-0.9877	0.0000	-0.29439	-0.15409	-0.12427	-0.04889
377.9478	81.1434	252.5754	22.4687	0.1564	-0.9877	0.0000	0.07800	0.17302	0.19804	0.28902
385.5228	82.3567	252.9351	20.4952	0.1601	-0.9871	-0.0039	0.51637	0.58894	0.30920	0.66559
391.6507	83.1044	253.2605	12.0993	0.0588	-0.9982	0.0093	0.69824	0.75710	0.51063	0.84055
395.6917	83.2990	253.5957	7.6218	0.0319	-0.9995	-0.0027	0.76439	0.82469	0.51897	0.89203
398.4863	83.3911	253.9281	4.8431	0.0349	-0.9994	0.0000	0.79727	0.86361	0.55891	0.94170
400.4211	83.4587	254.1898	3.1953	0.0349	-0.9994	0.0000	0.83454	0.90804	0.58125	0.99369
401.7599	83.5055	254.3227	2.3254	0.0348	-0.9994	0.0000	0.87127	0.93988	0.62686	1.03881
402.7285	83.5393	254.2767	2.0987	0.0349	-0.9994	0.0000	0.89072	0.93963	0.58139	1.03958
403.2975	83.5592	253.8973	1.6025	0.0349	-0.9994	0.0000	0.93568	0.98071	0.65922	1.06742
403.5379	83.5676	253.2038	1.4949	0.0348	-0.9994	0.0000	0.92979	0.97470	0.65675	1.01708
403.7152	83.5738	252.3433	1.6106	0.0349	-0.9994	0.0000	0.95097	1.00134	0.73118	1.02398
403.9283	83.5812	251.3236	1.8801	0.0348	-0.9994	0.0000	0.93085	0.98770	0.74459	0.96053
404.2508	83.5925	250.1573	2.2641	0.0349	-0.9994	0.0000	0.92227	0.98742	0.79108	0.93273
404.7369	83.6094	248.8538	2.7491	0.0349	-0.9994	0.0000	0.88558	0.96041	0.80329	0.86354
405.4323	83.6337	247.4305	3.3251	0.0349	-0.9994	0.0000	0.84464	0.92958	0.81741	0.79340

406.3749	83.6667	245.8997	4.0060	0.0349	-0.9994	0.0000	0.78481	0.88084	0.81033	0.70515
407.5995	83.7094	244.2610	4.7976	0.0349	-0.9994	0.0000	0.70953	0.81773	0.79509	0.59947
409.1558	83.7637	242.5149	5.7875	0.0349	-0.9994	0.0000	0.61339	0.73483	0.76509	0.47469
411.1142	83.8321	240.6509	7.0296	0.0349	-0.9994	0.0000	0.49998	0.63479	0.73149	0.33604
413.5692	83.9178	238.6577	8.6272	0.0349	-0.9994	0.0000	0.36040	0.50903	0.69616	0.17491
416.6490	84.0254	236.5254	10.6771	0.0349	-0.9994	0.0000	0.20337	0.36348	0.67698	-0.00310
420.5248	84.1608	234.2492	13.3147	0.0349	-0.9994	0.0000	0.03093	0.19493	0.67625	-0.19548
425.4139	84.3315	231.8416	16.5777	0.0349	-0.9994	0.0000	-0.14196	0.00919	0.69882	-0.39594
431.5755	84.5466	229.3379	20.4040	0.0349	-0.9994	0.0000	-0.29477	-0.17953	0.72115	-0.58253
439.2998	84.8164	226.8047	24.5555	0.0349	-0.9994	0.0000	-0.40144	-0.34116	0.70041	-0.72166
448.8494	85.1499	224.3394	28.6267	0.0349	-0.9994	0.0000	-0.42240	-0.42628	0.60733	-0.73868
460.3550	85.5517	222.0891	32.2041	0.0349	-0.9994	0.0000	-0.36013	-0.38389	0.44944	-0.54212
473.7172	86.0183	220.2404	35.0139	0.0349	-0.9994	0.0000	-0.27467	-0.26536	0.26776	-0.26203
488.5658	86.5372	218.9774	36.9828	0.0349	-0.9994	0.0000	-0.22206	-0.17944	0.09642	-0.16759
504.2470	87.0848	218.4515	37.8988	0.0349	-0.9994	0.0000	-0.20426	-0.15917	-0.06279	-0.15891
519.7457	87.6257	218.7878	35.9939	0.0349	-0.9994	0.0000	-0.19778	-0.16487	-0.22373	-0.16692
531.5228	88.0369	219.9117	18.0849	0.0349	-0.9994	0.0000	-0.16653	-0.14808	-0.37070	-0.14106
370.3735	79.9438	255.3568	26.1707	0.1564	-0.9877	0.0000	-0.29294	-0.14978	-0.12844	-0.04080
378.2714	81.1947	255.5113	23.6541	0.1564	-0.9877	0.0000	0.09488	0.19118	0.20866	0.30928
386.1498	82.4473	255.6473	21.2585	0.1577	-0.9875	-0.0038	0.53249	0.60618	0.30821	0.68972
392.4562	83.1691	255.7696	11.4712	0.0397	-0.9992	0.0084	0.71181	0.77174	0.52175	0.87017
396.5454	83.3236	255.8924	7.3267	0.0347	-0.9994	-0.0002	0.75940	0.82510	0.49310	0.90743
399.4844	83.4260	256.0243	4.5923	0.0349	-0.9994	0.0000	0.80060	0.87067	0.54174	0.98142
401.5941	83.4997	256.1390	2.8813	0.0349	-0.9994	0.0000	0.83434	0.89500	0.52594	1.03543
403.1022	83.5524	256.2051	1.9338	0.0349	-0.9994	0.0000	0.86991	0.90271	0.51291	1.08671
404.1912	83.5904	256.1905	1.5701	0.0349	-0.9994	0.0000	0.86901	0.88143	0.42703	1.08409
404.7181	83.6088	255.8041	1.1344	0.0349	-0.9994	0.0000	0.90177	0.91598	0.49206	1.13500
404.8356	83.6129	255.0402	1.1218	0.0349	-0.9994	0.0000	0.92552	0.93483	0.50969	1.07463
404.9554	83.6171	254.1696	1.2874	0.0349	-0.9994	0.0000	0.95986	0.97334	0.59417	1.08936
405.1364	83.6234	253.1975	1.5852	0.0348	-0.9994	0.0000	0.97332	0.99003	0.64699	1.02874
405.4240	83.6334	252.1281	1.9685	0.0349	-0.9994	0.0000	0.98322	1.00570	0.71679	0.99194
405.8482	83.6482	250.9567	2.4169	0.0349	-0.9994	0.0000	0.96744	0.99794	0.76119	0.92180
406.4479	83.6692	249.6858	2.9340	0.0349	-0.9994	0.0000	0.93412	0.97517	0.80380	0.83681
407.2655	83.6978	248.3124	3.5494	0.0349	-0.9994	0.0000	0.87649	0.93104	0.82096	0.73974
408.3381	83.7352	246.8237	4.2505	0.0349	-0.9994	0.0000	0.79772	0.86835	0.82430	0.62451
409.7264	83.7837	245.2126	5.1470	0.0349	-0.9994	0.0000	0.68684	0.77776	0.80174	0.48182
411.5150	83.8461	243.4601	6.2898	0.0349	-0.9994	0.0000	0.55890	0.67046	0.76564	0.33100
413.8136	83.9264	241.5491	7.7822	0.0349	-0.9994	0.0000	0.39581	0.53039	0.70615	0.15187
416.7685	84.0295	239.4647	9.7351	0.0349	-0.9994	0.0000	0.21648	0.37126	0.64296	-0.03869
420.5710	84.1624	237.1967	12.3032	0.0349	-0.9994	0.0000	0.01811	0.18464	0.56713	-0.24512
425.4594	84.3331	234.7552	15.5846	0.0349	-0.9994	0.0000	-0.17579	-0.01724	0.49322	-0.45333
431.7017	84.5511	232.1763	19.6126	0.0349	-0.9994	0.0000	-0.34265	-0.21794	0.41608	-0.64373
439.5765	84.8261	229.5379	24.3025	0.0349	-0.9994	0.0000	-0.45770	-0.38851	0.32264	-0.78263
449.3180	85.1663	226.9615	29.4123	0.0349	-0.9994	0.0000	-0.47359	-0.47624	0.21939	-0.79896
461.0361	85.5754	224.6210	34.5763	0.0349	-0.9994	0.0000	-0.40066	-0.42584	0.11219	-0.58764
474.6249	86.0500	222.7258	39.3070	0.0349	-0.9994	0.0000	-0.30388	-0.29326	0.01305	-0.28543
489.7047	86.5771	221.4779	43.0955	0.0350	-0.9994	0.0000	-0.24823	-0.20329	-0.08195	-0.19585
505.6160	87.1327	221.0390	45.2897	0.0348	-0.9994	0.0001	-0.23138	-0.18673	-0.18741	-0.18743
521.4549	87.6854	221.4953	44.2675	0.0349	-0.9994	0.0000	-0.22361	-0.19128	-0.31398	-0.19207
533.6894	88.1126	222.5692	22.2800	0.0349	-0.9994	0.0000	-0.19123	-0.17061	-0.43991	-0.15688

pylon for lower

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
405.3627	68.3502	256.6330	2.0040	-0.9991	0.0003	-0.0427	0.87821	0.81626	0.32751	1.03576
405.4151	68.6229	255.8682	2.1784	-0.9958	0.0003	-0.0912	0.90643	0.85152	0.35412	1.03521
405.5196	68.9078	255.0304	2.3421	-0.9882	0.0003	-0.1533	0.97447	0.91426	0.44290	1.06347
405.7002	69.2071	254.1197	2.5313	-0.9729	0.0003	-0.2313	1.00884	0.95750	0.51480	1.05756
405.9826	69.5202	253.1314	2.7522	-0.9497	0.0003	-0.3133	1.04340	1.00180	0.61451	1.04255
406.3811	69.8480	252.0550	3.0166	-0.9262	0.0004	-0.3770	1.05038	1.02412	0.68364	1.00534
406.9232	70.1897	250.8836	3.3258	-0.8894	0.0004	-0.4571	1.03617	1.03072	0.75723	0.93977
407.6604	70.5430	249.6075	3.7462	-0.8439	0.0003	-0.5364	0.98369	1.00539	0.80334	0.84417
408.6321	70.9074	248.2084	4.2305	-0.8009	0.0005	-0.5988	0.90726	0.95721	0.82563	0.73199
409.9026	71.2810	246.6731	4.8775	-0.7433	0.0004	-0.6690	0.77809	0.86456	0.81493	0.56990
411.5677	71.6579	244.9804	5.7142	-0.6866	0.0005	-0.7270	0.62775	0.74748	0.77644	0.39721
413.7437	72.0315	243.1127	6.7887	-0.6212	0.0003	-0.7837	0.43201	0.58584	0.69465	0.18898
416.5834	72.3918	241.0548	8.1897	-0.5581	0.0003	-0.8298	0.22784	0.40643	0.59191	-0.02322
420.2834	72.7203	238.7950	10.0340	-0.4909	0.0002	-0.8712	0.01246	0.20456	0.45646	-0.23951
425.0878	73.0332	236.3467	12.3812	-0.4239	0.0001	-0.9057	-0.18703	-0.00458	0.32451	-0.44904
431.2674	73.3093	233.7420	15.3780	-0.3594	0.0005	-0.9332	-0.37155	-0.22338	0.18794	-0.65557
439.1040	73.4744	231.0654	19.1986	-0.2934	0.0004	-0.9560	-0.49983	-0.41257	0.05644	-0.81457
448.8271	73.4844	228.4477	23.9767	-0.2320	0.0002	-0.9727	-0.50661	-0.50072	-0.03504	-0.83621
460.5381	73.3740	226.0655	29.5519	-0.1713	0.0002	-0.9852	-0.41628	-0.44028	-0.08845	-0.60795
474.1279	73.2362	224.1383	35.3008	-0.1129	0.0002	-0.9936	-0.30907	-0.29744	-0.12504	-0.29345
489.2098	73.1399	222.8721	40.2924	-0.0565	0.0005	-0.9984	-0.25027	-0.20423	-0.16984	-0.19773
505.1216	73.1260	222.4322	43.4589	0.0005	0.0007	-1.0000	-0.23342	-0.18799	-0.24158	-0.18773
521.0338	73.1841	222.8836	44.2437	0.0569	0.0008	-0.9984	-0.22367	-0.19272	-0.34147	-0.19229
535.8879	73.2614	224.1265	41.0368	0.1128	-0.0024	-0.9936	-0.18667	-0.16633	-0.42947	-0.14900
405.3636	71.0516	256.6283	1.9527	-0.9991	0.0003	-0.0430	0.91702	0.86632	0.36882	1.05616
405.4171	71.2776	255.8536	2.1177	-0.9957	0.0003	-0.0923	0.93175	0.89196	0.39485	1.03731
405.5241	71.5141	255.0065	2.2752	-0.9879	0.0003	-0.1552	0.98851	0.94420	0.47648	1.05554
405.7089	71.7631	254.0867	2.4569	-0.9721	0.0003	-0.2345	1.00511	0.97298	0.53738	1.03090
405.9969	72.0242	253.0899	2.6688	-0.9488	0.0002	-0.3159	1.02484	1.00267	0.62318	1.00503
406.4022	72.2982	252.0058	2.9222	-0.9249	0.0003	-0.3802	1.01418	1.00902	0.67879	0.95590
406.9530	72.5847	250.8281	3.2180	-0.8872	0.0003	-0.4613	0.98633	1.00183	0.73990	0.88323
407.6997	72.8822	249.5471	3.6203	-0.8421	0.0002	-0.5393	0.92719	0.96758	0.77404	0.78936
408.6813	73.1904	248.1444	4.0838	-0.7984	0.0004	-0.6021	0.84807	0.91426	0.79013	0.68023
409.9626	73.5084	246.6076	4.7025	-0.7409	0.0002	-0.6716	0.72585	0.82379	0.77655	0.53038
411.6384	73.8318	244.9151	5.5025	-0.6843	0.0004	-0.7292	0.58655	0.71300	0.74003	0.37150
413.8247	74.1561	243.0492	6.5304	-0.6192	0.0001	-0.7853	0.40702	0.56277	0.66640	0.17882
416.6741	74.4741	240.9945	7.8702	-0.5562	0.0002	-0.8310	0.21705	0.39444	0.57299	-0.02133
420.3833	74.7721	238.7393	9.6333	-0.4892	0.0001	-0.8721	0.01219	0.20117	0.44925	-0.23191
425.1965	75.0652	236.2961	11.8797	-0.4226	0.0001	-0.9063	-0.18437	-0.00500	0.31919	-0.44271
431.3851	75.3381	233.6977	14.7419	-0.3581	0.0004	-0.9337	-0.35909	-0.21530	0.18754	-0.64314
439.2307	75.5322	231.0275	18.3878	-0.2926	0.0004	-0.9562	-0.48105	-0.39774	0.05803	-0.79764
448.9631	75.6137	228.4158	22.9429	-0.2312	0.0002	-0.9729	-0.49204	-0.48737	-0.03488	-0.82025
460.6845	75.6125	226.0404	28.2528	-0.1706	0.0001	-0.9853	-0.41102	-0.43338	-0.09158	-0.60035
474.2858	75.6044	224.1208	33.7179	-0.1123	0.0002	-0.9937	-0.30941	-0.29679	-0.12766	-0.29367
489.3799	75.6435	222.8637	38.4482	-0.0558	0.0004	-0.9984	-0.25171	-0.20506	-0.16999	-0.19834
505.3040	75.7577	222.4341	41.4294	0.0012	0.0006	-1.0000	-0.23432	-0.18795	-0.23958	-0.18780
521.2278	75.9320	222.8968	42.1357	0.0576	0.0007	-0.9983	-0.22365	-0.19170	-0.33805	-0.19153
535.6483	76.0985	224.0924	36.5859	0.1123	-0.0024	-0.9937	-0.18707	-0.16628	-0.42470	-0.14990
405.3644	73.5979	256.6239	1.8285	-0.9991	0.0003	-0.0432	0.94559	0.90226	0.38534	1.08638
405.4191	73.7797	255.8399	1.9787	-0.9956	0.0003	-0.0932	0.95714	0.92357	0.41704	1.05309
405.5284	73.9704	254.9839	2.1243	-0.9876	0.0003	-0.1569	1.01422	0.97525	0.49582	1.07027
405.7172	74.1717	254.0556	2.2921	-0.9714	0.0003	-0.2374	1.02727	0.99963	0.55855	1.03470
406.0105	74.3835	253.0508	2.4872	-0.9480	0.0002	-0.3183	1.04442	1.02509	0.64206	1.00576
406.4220	74.6066	251.9593	2.7207	-0.9237	0.0002	-0.3832	1.02818	1.02535	0.69713	0.95071
406.9810	74.8408	250.7758	2.9924	-0.8852	0.0002	-0.4652	0.99492	1.01178	0.75565	0.87437
407.7366	75.0853	249.4901	3.3624	-0.8405	0.0001	-0.5419	0.93177	0.97235	0.78638	0.77951
408.7278	75.3403	248.0842	3.7884	-0.7962	0.0002	-0.6051	0.85001	0.91533	0.80084	0.66970
410.0192	75.6053	246.5460	4.3566	-0.7388	0.0001	-0.6740	0.72817	0.82352	0.78498	0.52267
411.7050	75.8778	244.8537	5.0910	-0.6822	0.0002	-0.7312	0.59049	0.71304	0.74736	0.36737
413.9009	76.1551	242.9895	6.0349	-0.6173	0.0000	-0.7867	0.41374	0.56451	0.67405	0.17871
416.7595	76.4326	240.9377	7.2642	-0.5545	0.0001	-0.8322	0.22489	0.39723	0.58137	-0.01987
420.4773	76.7010	238.6868	8.8807	-0.4877	0.0000	-0.8730	0.01885	0.20338	0.45741	-0.23203
425.2988	76.9744	236.2486	10.9409	-0.4215	0.0000	-0.9068	-0.17994	-0.00408	0.32485	-0.44453
431.4957	77.2430	233.6560	13.5586	-0.3569	0.0003	-0.9341	-0.35492	-0.21406	0.19220	-0.64419
439.3495	77.4628	230.9919	16.8870	-0.2919	0.0003	-0.9565	-0.47766	-0.39627	0.06433	-0.79714
449.0905	77.6092	228.3858	21.0360	-0.2305	0.0001	-0.9731	-0.49081	-0.48719	-0.03003	-0.81977
460.8216	77.7078	226.0170	25.8603	-0.1700	0.0001	-0.9854	-0.41112	-0.43383	-0.09299	-0.60022
474.4334	77.8181	224.1045	30.8048	-0.1117	0.0001	-0.9937	-0.30977	-0.29709	-0.13613	-0.29288
489.5387	77.9802	222.8558	35.0558	-0.0552	0.0004	-0.9985	-0.25233	-0.20553	-0.18203	-0.19892
505.4739	78.2102	222.4359	37.6956	0.0018	0.0006	-1.0000	-0.23518	-0.18888	-0.25153	-0.18926
521.4085	78.4889	222.9091	38.2588	0.0583	0.0007	-0.9983	-0.22552	-0.19332	-0.35079	-0.19365
535.4261	78.7337	224.0609	31.0933	0.1118	-0.0025	-0.9937	-0.18857	-0.16844	-0.43607	-0.15225
405.3652	75.9108	256.6199	1.6496	-0.9991	0.0002	-0.0434	0.97258	0.93939	0.40834	1.12421
405.4209	76.0522	255.8274	1.7817	-0.9956	0.0002	-0.0941	0.97979	0.95600	0.43995	1.07655
405.5322	76.2009	254.9633	1.9113	-0.9874	0.0002	-0.1585	1.03787	1.00877	0.51734	1.09201
405.7246	76.3585	254.0274	2.0606	-0.9708	0.0002	-0.2400	1.04743	1.02878	0.57901	1.04498
406.0228	76.5252	253.0153	2.2338	-0.9473	0.0001	-0.3204	1.06202	1.05065	0.65825	1.01216
406.4399	76.7016	251.9172	2.4411	-0.9226	0.0002	-0.3858	1.04082	1.04516	0.71044	0.95031
407.0064	76.8879	250.7283	2.6819	-0.8834	0.0001	-0.4686	1.00138	1.02470	0.76415	0.86871
407.7702	77.0838	249.4384	3.0097	-0.8390	0.0000	-0.5442	0.93305	0.97906	0.79005	0.77077
408.7699	77.2899	248.0296	3.3870	-0.7941	0.0001	-0.6077	0.84641	0.91630	0.80097	0.65802
410.0705	77.5063	246.4901	3.8898	-0.7368	0.0000	-0.6761	0.72216	0.82055	0.78211	0.51087
411.7653	77.7319	244.7980	4.5393	-0.6802	0.0001	-0.7330	0.58393	0.70806	0.74294	0.35674
413.9699	77.9657	242.9354	5.3739	-0.6156	-0.0001	-0.7881	0.40919	0.55990	0.66991	0.17186
416.8367	78.2054	240.8864	6.4599	-0.5529	-0.0001	-0.8332	0.22273	0.39391	0.58006	-0.02317
420.5623	78.4458	238.6394	7.8862	-0.4863	-0.0001	-0.8738	0.01876	0.20127	0.46093	-0.23337
425.3911	78.6999	236.2056	9.7034	-0.4204	-0.0001	-0.9074	-0.17872	-0.00512	0.33043	-0.44507
431.5955	78.9626	233.6184	12.0045	-0.3559	0.0002	-0.9345	-0.35050	-0.21236	0.19447	-0.64226
439.4566	79.2030	230.9598	14.9226	-0.2912	0.0003	-0.9567	-0.46993	-0.39084	0.05868	-0.79112
449.2051	79.4051	228.3589	18.5480	-0.2298	0.0001	-0.9732	-0.48436	-0.48158	-0.04411	-0.81300
460.9447	79.5896	225.9959	22.7467	-0.1694	0.0000	-0.9855	-0.40834	-0.43063	-0.10969	-0.59688
474.5657	79.8019	224.0898	27.0228	-0.1112	0.0001	-0.9938	-0.30938	-0.29645	-0.14926	-0.29214
489.6806	80.0691	222.8487	30.6621	-0.0546	0.0003	-0.9985	-0.25261	-0.20559	-0.19015	-0.19887
505.6255	80.3970	222.4374	32.8710	0.0023	0.0006	-1.0000	-0.23531	-0.18877	-0.25564	-0.18930
521.5692	80.7629	222.9200	33.2607	0.0589	0.0006	-0.9983	-0.22530	-0.19297	-0.35430	-0.19341
535.2295	81.0719	224.0329	25.3759	0.1113	-0.0025	-0.9938	-0.18994	-0.16892	-0.44290	-0.15377
405.3659	77.9421	256.6164	1.4391	-0.9990	0.0003	-0.0436	0.97687	0.96051	0.43317	1.15183
405.4224	78.0476	255.8164	1.5515	-0.9955	0.0003	-0.0949	0.98149	0.97438	0.46180	1.09606
405.5356	78.1590	254.9453	1.6633	-0.9872	0.0002	-0.1598	1.03959	1.02783	0.54009	1.10970
405.7312	78.2779	254.0026	1.7918	-0.9702	0.0002	-0.2422	1.04829	1.04605	0.60073	1.05548
406.0335	78.4045	252.9841	1.9407	-0.9466	0.0001	-0.3223	1.06259	1.06661	0.67821	1.02013

406.4557	78.5394	251.8802	2.1188	-0.9216	0.0001	-0.3881	1.04054	1.05856	0.72928	0.95370
407.0287	78.6832	250.6866	2.3252	-0.8818	0.0000	-0.4716	0.99914	1.03421	0.78058	0.86850
407.7996	78.8359	249.3931	2.6063	-0.8376	-0.0001	-0.5462	0.92986	0.98501	0.80387	0.76864
408.8067	78.9984	247.9817	2.9297	-0.7924	0.0000	-0.6101	0.84171	0.91840	0.81214	0.65350
410.1154	79.1715	246.4411	3.3603	-0.7351	-0.0001	-0.6780	0.71781	0.82014	0.79073	0.50602
411.8181	79.3552	244.7492	3.9162	-0.6785	0.0000	-0.7346	0.58059	0.70626	0.75007	0.35198
414.0303	79.5498	242.8880	4.6300	-0.6141	-0.0002	-0.7892	0.40827	0.55820	0.67655	0.16834
416.9042	79.7554	240.8414	5.5579	-0.5516	-0.0001	-0.8341	0.22344	0.39269	0.58824	-0.02534
420.6365	79.9698	238.5980	6.7746	-0.4852	-0.0001	-0.8744	0.02004	0.20000	0.47361	-0.23526
425.4717	80.2052	236.1682	8.3233	-0.4194	-0.0002	-0.9078	-0.17743	-0.00655	0.35129	-0.44695
431.6824	80.4606	233.5856	10.2771	-0.3549	0.0001	-0.9349	-0.34831	-0.21288	0.22755	-0.64282
439.5497	80.7163	230.9318	12.7465	-0.2906	0.0002	-0.9569	-0.46712	-0.38990	0.10472	-0.78919
449.3046	80.9632	228.3355	15.8016	-0.2293	0.0000	-0.9734	-0.48265	-0.48072	0.00613	-0.81033
461.0512	81.2182	225.9777	19.3213	-0.1689	0.0000	-0.9856	-0.40764	-0.43023	-0.06640	-0.59537
474.6799	81.5135	224.0772	22.8769	-0.1107	0.0000	-0.9939	-0.30901	-0.29619	-0.11831	-0.29056
489.8027	81.8655	222.8427	25.8631	-0.0541	0.0003	-0.9985	-0.25242	-0.20545	-0.17014	-0.19833
505.7554	82.2712	222.4388	27.6204	0.0028	0.0005	-1.0000	-0.23527	-0.18881	-0.24384	-0.18928
521.7064	82.7053	222.9294	27.8405	0.0594	0.0006	-0.9982	-0.22641	-0.19358	-0.35104	-0.19426
535.0624	83.0630	224.0091	20.0492	0.1108	-0.0026	-0.9938	-0.18946	-0.16923	-0.44302	-0.15417
405.3665	79.6736	256.6134	1.2191	-0.9990	0.0003	-0.0438	0.94115	0.95188	0.45526	1.15994
405.4238	79.7481	255.8071	1.3124	-0.9954	0.0002	-0.0955	0.94675	0.96504	0.48017	1.10250
405.5385	79.8275	254.9300	1.4060	-0.9870	0.0002	-0.1609	1.00172	1.01695	0.56127	1.11515
405.7368	79.9129	253.9815	1.5136	-0.9698	0.0002	-0.2441	1.01244	1.03568	0.62152	1.05881
406.0427	80.0049	252.9576	1.6380	-0.9461	0.0001	-0.3238	1.02771	1.05623	0.69900	1.02234
406.4692	80.1041	251.8487	1.7868	-0.9208	0.0001	-0.3900	1.00886	1.04849	0.74997	0.95399
407.0477	80.2111	250.6512	1.9589	-0.8805	-0.0001	-0.4741	0.97025	1.02357	0.80021	0.86697
407.8246	80.3265	249.3546	2.1933	-0.8365	-0.0001	-0.5479	0.90493	0.97435	0.82214	0.76633
408.8381	80.4513	247.9410	2.4628	-0.7908	-0.0001	-0.6120	0.81983	0.90716	0.82809	0.64972
410.1536	80.5869	246.3995	2.8214	-0.7337	-0.0002	-0.6795	0.70052	0.80949	0.80327	0.50233
411.8630	80.7341	244.7078	3.2838	-0.6771	-0.0001	-0.7359	0.56738	0.69651	0.75811	0.34840
414.0816	80.8945	242.8478	3.8774	-0.6128	-0.0003	-0.7902	0.39955	0.55026	0.67771	0.16567
416.9615	81.0698	240.8033	4.6478	-0.5504	-0.0002	-0.8349	0.21812	0.38660	0.57910	-0.02726
420.6993	81.2608	238.5629	5.6564	-0.4841	-0.0002	-0.8750	0.01743	0.19562	0.45018	-0.23652
425.5398	81.4786	236.1364	6.9384	-0.4186	-0.0002	-0.9082	-0.17834	-0.00968	0.30915	-0.44778
431.7559	81.7256	233.5580	8.5493	-0.3541	0.0001	-0.9352	-0.34732	-0.21421	0.16433	-0.64239
439.6282	81.9916	230.9083	10.5775	-0.2901	0.0002	-0.9570	-0.46448	-0.38893	0.02739	-0.78638
449.3882	82.2730	228.3158	13.0748	-0.2288	0.0000	-0.9735	-0.48043	-0.47925	-0.06808	-0.80675
461.1404	82.5829	225.9624	15.9341	-0.1685	0.0000	-0.9857	-0.40668	-0.42959	-0.12026	-0.59376
474.7752	82.9428	224.0666	18.7950	-0.1103	0.0000	-0.9939	-0.30880	-0.29645	-0.14749	-0.28963
489.9042	83.3598	222.8376	21.1598	-0.0537	0.0003	-0.9986	-0.25232	-0.20577	-0.18191	-0.19793
505.8629	83.8238	222.4399	22.4976	0.0031	0.0005	-1.0000	-0.23502	-0.18893	-0.24696	-0.18898
521.8196	84.3078	222.9371	22.5755	0.0598	0.0006	-0.9982	-0.22572	-0.19343	-0.35111	-0.19370
534.9253	84.7001	223.9896	15.4537	0.1103	-0.0026	-0.9939	-0.19226	-0.17102	-0.44884	-0.15685
405.3669	81.1123	256.6109	1.0074	-0.9990	0.0003	-0.0439	0.88753	0.92469	0.47351	1.15387
405.4248	81.1608	255.7993	1.0831	-0.9954	0.0002	-0.0960	0.89876	0.93921	0.49550	1.09786
405.5409	81.2132	254.9172	1.1597	-0.9868	0.0002	-0.1618	0.94659	0.98677	0.57926	1.10990
405.7415	81.2705	253.9639	1.2477	-0.9694	0.0001	-0.2456	0.96016	1.00644	0.63931	1.05354
406.0503	81.3334	252.9355	1.3492	-0.9457	0.0000	-0.3251	0.97548	1.02672	0.71709	1.01630
406.4803	81.4025	251.8226	1.4706	-0.9201	0.0000	-0.3916	0.96096	1.02012	0.76792	0.94716
407.0634	81.4785	250.6218	1.6109	-0.8794	-0.0001	-0.4761	0.92751	0.99639	0.81729	0.85908
407.8454	81.5625	249.3226	1.8018	-0.8356	-0.0002	-0.5493	0.86880	0.94949	0.83814	0.75829
408.8641	81.6555	247.9073	2.0212	-0.7896	-0.0001	-0.6136	0.78983	0.88434	0.84211	0.64089
410.1852	81.7592	246.3650	2.3129	-0.7325	-0.0003	-0.6808	0.67819	0.78999	0.81390	0.49426
411.9001	81.8755	244.6735	2.6887	-0.6759	-0.0001	-0.7370	0.55135	0.68012	0.76285	0.34102
414.1240	82.0068	242.8146	3.1707	-0.6118	-0.0003	-0.7910	0.38987	0.53763	0.67211	0.15966
417.0089	82.1560	240.7719	3.7956	-0.5494	-0.0003	-0.8355	0.21241	0.37715	0.55647	-0.03217
420.7512	82.3264	238.5339	4.6120	-0.4833	-0.0003	-0.8754	0.01433	0.18926	0.40377	-0.24052
425.5960	82.5281	236.1103	5.6482	-0.4180	-0.0002	-0.9085	-0.18001	-0.01407	0.23695	-0.45074
431.8163	82.7664	233.5352	6.9447	-0.3535	0.0001	-0.9354	-0.34761	-0.21680	0.07387	-0.64354
439.6927	83.0383	230.8890	8.5704	-0.2897	0.0002	-0.9571	-0.46366	-0.38974	-0.06511	-0.78516
449.4566	83.3449	228.2998	10.5617	-0.2284	0.0000	-0.9736	-0.47930	-0.47906	-0.14829	-0.80388
461.2133	83.6962	225.9499	12.8260	-0.1681	0.0000	-0.9858	-0.40557	-0.42897	-0.18262	-0.59143
474.8526	84.1042	224.0581	15.0675	-0.1100	0.0000	-0.9939	-0.30770	-0.29572	-0.19369	-0.28781
489.9863	84.5687	222.8335	16.8864	-0.0534	0.0002	-0.9986	-0.25134	-0.20517	-0.21538	-0.19701
505.9496	85.0741	222.4408	17.8674	0.0034	0.0005	-1.0000	-0.23423	-0.18849	-0.27000	-0.18835
521.9103	85.5922	222.9432	17.8409	0.0602	0.0005	-0.9982	-0.22610	-0.19328	-0.36475	-0.19356
534.8162	86.0075	223.9741	11.6973	0.1099	-0.0026	-0.9939	-0.19072	-0.17013	-0.45030	-0.15555
405.3673	82.2825	256.6089	0.8156	-0.9990	0.0002	-0.0440	0.86666	0.90761	0.48469	1.14525
405.4258	82.3096	255.7930	0.8759	-0.9953	0.0003	-0.0964	0.89019	0.92587	0.50427	1.09140
405.5429	82.3397	254.9069	0.9374	-0.9867	0.0002	-0.1626	0.93086	0.96721	0.58960	1.10355
405.7453	82.3739	253.9497	1.0079	-0.9690	0.0001	-0.2469	0.94727	0.98659	0.64945	1.04797
406.0565	82.4129	252.9176	1.0892	-0.9453	0.0000	-0.3261	0.96106	1.00554	0.72722	1.01076
406.4894	82.4571	251.8014	1.1864	-0.9196	0.0000	-0.3929	0.94881	1.00012	0.77806	0.94197
407.0762	82.5077	250.5979	1.2985	-0.8785	-0.0002	-0.4778	0.91931	0.97835	0.82691	0.85401
407.8622	82.5657	249.2967	1.4511	-0.8349	-0.0002	-0.5504	0.86487	0.93440	0.84722	0.75399
408.8852	82.6324	247.8799	1.6264	-0.7886	-0.0002	-0.6149	0.78872	0.87199	0.85077	0.63684
410.2108	82.7098	246.3371	1.8592	-0.7315	-0.0003	-0.6818	0.67889	0.78127	0.82306	0.49118
411.9302	82.8004	244.6458	2.1590	-0.6749	-0.0002	-0.7379	0.55166	0.67440	0.77455	0.33865
414.1583	82.9073	242.7877	2.5430	-0.6110	-0.0004	-0.7917	0.38815	0.53417	0.69006	0.15809
417.0471	83.0346	240.7464	3.0403	-0.5487	-0.0003	-0.8360	0.20884	0.37429	0.58648	-0.03343
420.7931	83.1873	238.5105	3.6887	-0.4826	-0.0003	-0.8758	0.01000	0.18624	0.45250	-0.24151
425.6413	83.3747	236.0892	4.5101	-0.4175	-0.0003	-0.9087	-0.18382	-0.01699	0.30843	-0.45142
431.8649	83.6042	233.5169	5.5337	-0.3530	0.0000	-0.9356	-0.35012	-0.21895	0.16474	-0.64351
439.7444	83.8790	230.8735	6.8117	-0.2893	0.0001	-0.9572	-0.46486	-0.39073	0.03395	-0.78406
449.5114	84.2034	228.2869	8.3687	-0.2281	-0.0001	-0.9736	-0.47980	-0.47942	-0.05541	-0.80222
461.2714	84.5845	225.9400	10.1261	-0.1679	-0.0001	-0.9858	-0.40593	-0.42927	-0.10528	-0.59072
474.9142	85.0272	224.0512	11.8458	-0.1098	0.0000	-0.9940	-0.30789	-0.29597	-0.13415	-0.28732
490.0513	85.5250	222.8303	13.2131	-0.0531	0.0002	-0.9986	-0.25145	-0.20536	-0.17220	-0.19681
506.0178	86.0583	222.4414	13.9096	0.0037	0.0004	-1.0000	-0.23423	-0.18870	-0.24026	-0.18818
521.9814	86.5981	222.9481	13.8160	0.0604	0.0005	-0.9982	-0.22557	-0.19323	-0.34526	-0.19300
534.7313	87.0274	223.9620	8.7401	0.1096	-0.0026	-0.9940	-0.19332	-0.17195	-0.45079	-0.15767
405.3676	83.2179	256.6073	0.6493	-0.9990	0.0003	-0.0441	0.87059	0.90755	0.49241	1.14281
405.4265	83.2277	255.7879	0.6967	-0.9953	0.0002	-0.0968	0.89793	0.92918	0.51099	1.08850
405.5444	83.2398	254.8986	0.7453	-0.9866	0.0002	-0.1632	0.93691	0.96975	0.59746	1.10027
405.7483	83.2553	253.9383	0.8010	-0.9688	0.0001	-0.2478	0.95447	0.98781	0.65688	1.04324
406.0615	83.2749	252.9034	0.8651	-0.9450	0.0000	-0.3270	0.96674	1.00387	0.73405	1.00520
406.4966	83.2991	251.7845	0.9418	-0.9191	0.0000	-0.3939	0.95267	0.99665	0.78393	0.93526
407.0864	83.3289	250.5789	1.0300	-0.8778	-0.0002	-0.4791	0.91913	0.97401	0.83144	0.84655
407.8756	83.3659	249.2760	1.1502	-0.8343	-0.0003	-0.5513	0.86064	0.92996	0.85029	0.74640
408.9020	83.4113	247.8581	1.2881	-0.7878	-0.0003	-0.6159	0.78086	0.86738	0.85335	0.62879
410.2312	83.4673	246.3148	1.4712	-0.7307	-0.0004	-0.6827	0.66784	0.77638	0.82843	0.48353
411.9541	83.5369	244.6236	1.7067	-0.6741	-0.0003	-0.7386	0.53909	0.66833	0.78951	0.33154
414.1856	83.6238	242.7663	2.0081	-0.6103	-0.0004	-0.7922	0.37506	0.52701	0.72633	0.15187
417.0775	83.7330	240.7262	2.3979	-0.5481	-0.0004	-0.8364	0.19683	0.36704	0.66011	-0.03885
420.8264	83.8707	238.4919	2.9051	-0.4821	-0.0003	-0.8761	-0.00008	0.17959	0.58064	-0.24578
425.6772	84.0459	236.0725	3.5465	-0.4170	-0.0003	-0.9089	-0.19086	-0.02220	0.50200	-0.45431

431.9033	84.2672	233.5024	4.3425	-0.3526	0.0000	-0.9358	-0.35402	-0.22230	0.41800	-0.64469
439.7852	84.5426	230.8612	5.3322	-0.2891	0.0001	-0.9573	-0.46614	-0.39203	0.31698	-0.78338
449.5545	84.8790	228.2767	6.5311	-0.2279	-0.0001	-0.9737	-0.47950	-0.47906	0.20889	-0.79956
461.3170	85.2812	225.9322	7.8740	-0.1676	-0.0001	-0.9858	-0.40507	-0.42808	0.10150	-0.58769
474.9622	85.7480	224.0459	9.1723	-0.1096	-0.0001	-0.9940	-0.30703	-0.29480	0.00584	-0.28540
490.1018	86.2683	222.8277	10.1818	-0.0529	0.0002	-0.9986	-0.25077	-0.20459	-0.08472	-0.19587
506.0705	86.8192	222.4420	10.6623	0.0039	0.0004	-1.0000	-0.23358	-0.18813	-0.18706	-0.18752
522.0361	87.3718	222.9518	10.5329	0.0606	0.0005	-0.9982	-0.22520	-0.19229	-0.31280	-0.19211
534.6664	87.8086	223.9528	6.4714	0.1093	-0.0027	-0.9940	-0.19222	-0.17107	-0.43914	-0.15685

plate bottom upper

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
370.3788	79.9446	258.6369	26.2572	0.1564	-0.9877	0.0000	-0.30520	-0.15687	0.06282	-0.07510
378.2921	81.1979	258.4824	23.8983	0.1564	-0.9877	0.0000	0.08385	0.18416	0.49717	0.25270
386.1921	82.4532	258.3524	21.7328	0.1575	-0.9875	0.0031	0.51112	0.58954	0.54744	0.63609
392.5181	83.1738	258.2360	11.9621	0.0387	-0.9992	-0.0065	0.67953	0.74315	0.65681	0.83918
396.6186	83.3261	258.1220	7.8148	0.0348	-0.9994	0.0001	0.70982	0.77491	0.49206	0.89116
399.5562	83.4285	258.0050	4.9728	0.0349	-0.9994	0.0000	0.73665	0.80721	0.45772	0.97937
401.6530	83.5017	257.9000	3.1266	0.0349	-0.9994	0.0000	0.74486	0.81308	0.38099	1.03469
403.1474	83.5539	257.8371	2.0772	0.0349	-0.9994	0.0000	0.77496	0.82256	0.39160	1.09544
404.2322	83.5918	257.8494	1.6496	0.0349	-0.9994	0.0000	0.76222	0.78890	0.29166	1.08625
404.7611	83.6103	258.2400	1.1051	0.0348	-0.9994	-0.0001	0.76663	0.79886	0.38200	1.14364
404.8882	83.6147	259.0109	1.0756	0.0349	-0.9994	0.0000	0.72351	0.73032	0.19648	1.03508
405.0267	83.6195	259.8840	1.2097	0.0349	-0.9994	0.0000	0.68069	0.69162	0.17039	1.02916
405.2271	83.6265	260.8597	1.4635	0.0350	-0.9994	0.0000	0.58854	0.59822	0.01642	0.92934
405.5302	83.6372	261.9288	1.7939	0.0349	-0.9994	0.0000	0.49265	0.50961	-0.07882	0.86271
405.9623	83.6522	263.0940	2.1898	0.0349	-0.9994	0.0000	0.38046	0.40698	-0.17294	0.76325
406.5604	83.6731	264.3529	2.6726	0.0349	-0.9994	0.0000	0.24391	0.28079	-0.27855	0.64715
407.3672	83.7013	265.7117	3.2742	0.0349	-0.9994	0.0000	0.11783	0.16483	-0.34419	0.53492
408.4217	83.7381	267.1867	3.9875	0.0349	-0.9994	0.0000	-0.01000	0.04813	-0.40515	0.41512
409.7872	83.7858	268.7877	4.9205	0.0349	-0.9994	0.0000	-0.15499	-0.08644	-0.48371	0.27213
411.5511	83.8474	270.5357	6.1239	0.0349	-0.9994	0.0000	-0.27875	-0.20304	-0.51892	0.13592
413.8273	83.9269	272.4473	7.6964	0.0349	-0.9994	0.0000	-0.40358	-0.32567	-0.55906	-0.01204
416.7662	84.0295	274.5327	9.7459	0.0349	-0.9994	0.0000	-0.49883	-0.42931	-0.55477	-0.14646
420.5589	84.1619	276.8019	12.4027	0.0349	-0.9994	0.0000	-0.56748	-0.51697	-0.53956	-0.27087
425.4418	84.3324	279.2469	15.7571	0.0349	-0.9994	0.0000	-0.60281	-0.58381	-0.51447	-0.38077
431.6842	84.5505	281.8277	19.8312	0.0349	-0.9994	0.0000	-0.60653	-0.62880	-0.49565	-0.47295
439.5629	84.8256	284.4669	24.5383	0.0349	-0.9994	0.0000	-0.57523	-0.61647	-0.47049	-0.52837
449.3100	85.1659	287.0401	29.6387	0.0349	-0.9994	0.0000	-0.52815	-0.54303	-0.45360	-0.53034
461.0318	85.5753	289.3764	34.7690	0.0349	-0.9994	0.0000	-0.48476	-0.45111	-0.43752	-0.48541
474.6213	86.0498	291.2710	39.4357	0.0349	-0.9994	0.0000	-0.46014	-0.40119	-0.43114	-0.43279
489.7010	86.5770	292.5130	43.1401	0.0350	-0.9994	0.0000	-0.44423	-0.38671	-0.42633	-0.40023
505.6117	87.1326	292.9528	45.2829	0.0348	-0.9994	-0.0001	-0.42345	-0.37279	-0.41578	-0.37637
521.4533	87.6852	292.5078	44.3098	0.0349	-0.9994	0.0000	-0.38967	-0.34117	-0.41301	-0.34132
533.7013	88.1129	291.4426	22.5567	0.0349	-0.9994	0.0000	-0.32350	-0.26965	-0.39683	-0.26187
370.2947	79.9313	261.8956	25.1921	0.1564	-0.9877	0.0000	-0.32978	-0.17428	0.21007	-0.11134
378.0292	81.1563	261.4395	22.9102	0.1564	-0.9877	0.0000	0.04988	0.15644	0.73738	0.19113
385.6907	82.3822	261.1198	21.3040	0.1597	-0.9872	0.0038	0.46263	0.54934	0.76460	0.56707
391.8969	83.1230	260.8530	12.9990	0.0528	-0.9986	-0.0092	0.61339	0.68652	0.77055	0.77324
395.9824	83.3070	260.5770	8.4458	0.0330	-0.9995	0.0017	0.65524	0.72417	0.53653	0.84373
398.7785	83.4014	260.2861	5.4105	0.0349	-0.9994	0.0000	0.66874	0.74392	0.43060	0.91148
400.6836	83.4679	260.0328	3.4989	0.0349	-0.9994	0.0000	0.66429	0.74677	0.33374	0.94888
401.9912	83.5136	259.8790	2.4546	0.0349	-0.9994	0.0000	0.67428	0.75501	0.32956	0.99227
402.9528	83.5472	259.8802	2.1218	0.0349	-0.9994	0.0000	0.66882	0.72725	0.24542	0.98138
403.5399	83.5676	260.2326	1.5002	0.0348	-0.9994	-0.0001	0.66707	0.71806	0.24964	1.01013
403.8190	83.5774	260.9240	1.3369	0.0349	-0.9994	0.0000	0.59239	0.63849	0.12529	0.92356
404.0485	83.5854	261.7829	1.3763	0.0348	-0.9994	0.0000	0.55236	0.60316	0.12713	0.92078
404.3098	83.5945	262.8027	1.5389	0.0349	-0.9994	0.0000	0.46232	0.51649	0.02235	0.82323
404.6643	83.6069	263.9569	1.7961	0.0349	-0.9994	0.0000	0.39181	0.45208	-0.01543	0.78362
405.1554	83.6240	265.2319	2.1557	0.0349	-0.9994	0.0000	0.30254	0.36859	-0.08491	0.69615
405.8233	83.6474	266.6146	2.6354	0.0349	-0.9994	0.0000	0.21261	0.28218	-0.13184	0.61115
406.7079	83.6782	268.1023	3.2641	0.0349	-0.9994	0.0000	0.12557	0.19883	-0.17209	0.51942
407.8524	83.7182	269.7047	4.0598	0.0349	-0.9994	0.0000	0.02787	0.10553	-0.22285	0.41731
409.3173	83.7694	271.4278	5.1096	0.0350	-0.9994	0.0000	-0.07558	0.00428	-0.27369	0.30632
411.1846	83.8346	273.2846	6.4680	0.0349	-0.9994	0.0000	-0.17381	-0.09530	-0.31198	0.19411
413.5609	83.9176	275.2846	8.2306	0.0349	-0.9994	0.0000	-0.27462	-0.20248	-0.35490	0.07216
416.5827	84.0231	277.4302	10.4761	0.0349	-0.9994	0.0000	-0.36343	-0.30266	-0.37678	-0.04946
420.4243	84.1573	279.7217	13.2931	0.0349	-0.9994	0.0000	-0.43663	-0.39605	-0.39265	-0.17060
425.3031	84.3276	282.1450	16.6971	0.0349	-0.9994	0.0000	-0.48512	-0.47776	-0.39720	-0.28553
431.4759	84.5432	284.6603	20.5965	0.0349	-0.9994	0.0000	-0.50619	-0.53455	-0.40087	-0.38572
439.2249	84.8138	287.2011	24.7512	0.0349	-0.9994	0.0000	-0.49564	-0.53867	-0.39681	-0.45245
448.8016	85.1482	289.6670	28.7766	0.0349	-0.9994	0.0000	-0.46752	-0.48322	-0.39441	-0.46847
460.3268	85.5507	291.9136	32.2806	0.0349	-0.9994	0.0000	-0.43757	-0.40761	-0.38971	-0.43690
473.6997	86.0177	293.7584	34.9959	0.0349	-0.9994	0.0000	-0.41960	-0.36436	-0.38963	-0.39394
488.5546	86.5369	295.0114	36.8700	0.0349	-0.9994	0.0000	-0.40801	-0.35231	-0.38922	-0.36538
504.2399	87.0846	295.5349	37.7665	0.0349	-0.9994	0.0000	-0.39116	-0.34222	-0.38345	-0.34530
519.7484	87.6257	295.2125	35.9847	0.0349	-0.9994	0.0000	-0.36183	-0.31562	-0.38353	-0.31470
531.5580	88.0381	294.1147	18.4052	0.0349	-0.9994	0.0000	-0.31160	-0.26260	-0.37322	-0.25357
370.3755	79.9441	265.0971	23.8542	0.1564	-0.9877	0.0000	-0.35011	-0.18856	0.35447	-0.13512
377.7758	81.1162	264.3755	22.0770	0.1564	-0.9877	0.0000	0.01806	0.13024	0.95721	0.14383
385.0231	82.2814	264.0130	21.1326	0.1612	-0.9869	0.0015	0.40655	0.50291	0.98201	0.50293
391.0076	83.0506	263.7682	15.1103	0.0784	-0.9969	-0.0004	0.52531	0.61225	0.86805	0.69930
395.0878	83.2865	263.4986	10.1869	0.0264	-0.9996	0.0023	0.58946	0.66523	0.58273	0.80527
397.7849	83.3666	263.2031	6.8703	0.0349	-0.9994	0.0000	0.57487	0.64969	0.34656	0.84095
399.5834	83.4295	262.9491	4.6889	0.0349	-0.9994	0.0000	0.56883	0.65047	0.24283	0.87075
400.8225	83.4727	262.7912	3.4446	0.0349	-0.9994	0.0000	0.55581	0.64555	0.21775	0.88595
401.7738	83.5060	262.7671	3.0279	0.0349	-0.9994	0.0000	0.53079	0.61762	0.17301	0.87333
402.4557	83.5298	263.0490	2.1338	0.0349	-0.9994	0.0000	0.51065	0.59650	0.15828	0.87869
402.8989	83.5452	263.6746	1.8571	0.0349	-0.9994	0.0000	0.45392	0.53902	0.08959	0.82680
403.2864	83.5588	264.5317	1.8422	0.0349	-0.9994	0.0000	0.41700	0.50218	0.06697	0.80182
403.7023	83.5733	265.6061	1.9881	0.0349	-0.9994	0.0000	0.34274	0.42975	-0.00229	0.72163
404.2087	83.5910	266.8610	2.2584	0.0349	-0.9994	0.0000	0.28287	0.37140	-0.03753	0.67508
404.8523	83.6135	268.2632	2.6581	0.0349	-0.9994	0.0000	0.19942	0.29138	-0.10337	0.58918
405.6730	83.6421	269.7839	3.1986	0.0349	-0.9994	0.0000	0.11958	0.21285	-0.14136	0.51213
406.7097	83.6783	271.4080	3.9034	0.0349	-0.9994	0.0000	0.03134	0.12720	-0.18591	0.41947
408.0063	83.7236	273.1324	4.7923	0.0349	-0.9994	0.0000	-0.06231	0.03425	-0.22827	0.32309
409.6182	83.7799	274.9542	5.9245	0.0349	-0.9994	0.0000	-0.15756	-0.06362	-0.26878	0.22240
411.6174	83.8497	276.8752	7.3408	0.0349	-0.9994	0.0000	-0.24717	-0.15861	-0.30067	0.11882
414.0939	83.9362	278.8938	9.0995	0.0349	-0.9994	0.0000	-0.33353	-0.25336	-0.33074	0.00786
417.1615	84.0433	281.0040	11.2486	0.0349	-0.9994	0.0000	-0.40372	-0.33965	-0.34796	-0.10076
420.9686	84.1763	283.1981	13.8526	0.0349	-0.9994	0.0000	-0.45587	-0.41874	-0.36342	-0.20494
425.7111	84.3419	285.4614	16.9382	0.0349	-0.9994	0.0000	-0.48716	-0.48258	-0.37077	-0.30086
431.6437	84.5491	287.7633	20.4651	0.0349	-0.9994	0.0000	-0.49868	-0.52553	-0.37774	-0.38483
439.0784	84.8087	290.0595	24.2260	0.0349	-0.9994	0.0000	-0.48596	-0.52451	-0.37777	-0.44208
448.3116	85.1311	292.2834	27.7589	0.0349	-0.9994	0.0000	-0.45896	-0.47199	-0.37880	-0.45609
459.4875	85.5214	294.3236	30.5617	0.0349	-0.9994	0.0000	-0.43096	-0.40124	-0.37757	-0.42707
472.5021	85.9759	296.0231	32.4181	0.0349	-0.9994	0.0000	-0.41435	-0.35986	-0.38038	-0.38747
486.9843	86.4819	297.2169	33.4578	0.0349	-0.9994	0.0000	-0.40419	-0.34836	-0.38265	-0.36091
502.2802	87.0161	297.7869	33.7842	0.0349	-0.9994	-0.0001	-0.38949	-0.34007	-0.37919	-0.34282
517.3332	87.5415	297.6050	31.9215	0.0349	-0.9994	0.0000	-0.36338	-0.31669	-0.38106	-0.31571
529.0172	87.9494	296.6206	17.8006	0.0349	-0.9994	0.0000	-0.31426	-0.26698	-0.36309	-0.25727
370.7938	80.0103	268.2648	22.7585	0.1564	-0.9877	0.0000	-0.36644	-0.19923	0.47366	-0.15149
377.7260	81.1083	267.3684	21.6449	0.1564	-0.9877	0.0000	-0.00828	0.10919	1.14052	0.10829

384.4502	82.1902	267.1095	20.9296	0.1615	-0.9869	0.0001	0.34454	0.45324	1.18789	0.44045
390.1426	82.9794	267.0819	17.4981	0.1055	-0.9944	0.0047	0.43011	0.53498	0.98560	0.61964
394.2237	83.2701	267.0464	12.3871	0.0176	-0.9998	-0.0004	0.51219	0.60206	0.65806	0.75740
396.9063	83.3360	266.9582	8.9097	0.0349	-0.9994	0.0000	0.45924	0.54099	0.27114	0.74803
398.7204	83.3993	266.8633	6.5005	0.0349	-0.9994	0.0000	0.45312	0.53759	0.15886	0.76463
400.0063	83.4442	266.7997	4.9802	0.0349	-0.9994	0.0000	0.42695	0.51697	0.11622	0.74978
401.0117	83.4793	266.7921	4.2733	0.0348	-0.9994	0.0000	0.39576	0.48910	0.09892	0.72939
401.7784	83.5061	267.0050	2.9754	0.0350	-0.9994	0.0000	0.36768	0.46382	0.07933	0.71828
402.3564	83.5263	267.5515	2.6455	0.0349	-0.9994	0.0000	0.32444	0.42216	0.03745	0.68295
402.9028	83.5454	268.3893	2.6151	0.0349	-0.9994	0.0000	0.28194	0.38027	0.00332	0.64597
403.4895	83.5659	269.4961	2.7820	0.0349	-0.9994	0.0000	0.22014	0.32028	-0.03759	0.58297
404.1716	83.5897	270.8233	3.1037	0.0349	-0.9994	0.0000	0.16205	0.26273	-0.06629	0.52848
404.9925	83.6184	272.3172	3.5733	0.0349	-0.9994	0.0000	0.08966	0.19220	-0.10821	0.45518
405.9889	83.6532	273.9304	4.1891	0.0349	-0.9994	0.0000	0.02275	0.12486	-0.13197	0.38820
407.1961	83.6953	275.6313	4.9606	0.0349	-0.9994	0.0000	-0.04842	0.05348	-0.15998	0.30960
408.6528	83.7462	277.4025	5.8922	0.0349	-0.9994	0.0000	-0.11654	-0.01815	-0.18019	0.23267
410.4046	83.8074	279.2311	7.0110	0.0349	-0.9994	0.0000	-0.18045	-0.08773	-0.20250	0.15522
412.5083	83.8808	281.1095	8.3359	0.0349	-0.9994	0.0000	-0.23905	-0.15478	-0.22418	0.07629
415.0343	83.9690	283.0300	9.8982	0.0349	-0.9994	0.0000	-0.29222	-0.22108	-0.24680	-0.00596
418.0747	84.0752	284.9847	11.7448	0.0349	-0.9994	0.0000	-0.33678	-0.28571	-0.26479	-0.08763
421.7583	84.2038	286.9684	13.9653	0.0349	-0.9994	0.0000	-0.37638	-0.34944	-0.28455	-0.16996
426.2718	84.3614	288.9741	16.6519	0.0349	-0.9994	0.0000	-0.40884	-0.41000	-0.30122	-0.25335
431.8821	84.5574	290.9839	19.8530	0.0349	-0.9994	0.0000	-0.42933	-0.45598	-0.31853	-0.33285
438.9382	84.8038	292.9725	23.4156	0.0349	-0.9994	0.0000	-0.43077	-0.46543	-0.33064	-0.39304
447.7798	85.1125	294.9018	26.7970	0.0349	-0.9994	0.0000	-0.41823	-0.42895	-0.34222	-0.41635
458.5676	85.4893	296.6882	29.3530	0.0349	-0.9994	0.0000	-0.40069	-0.37236	-0.34962	-0.39798
471.1855	85.9299	298.1993	30.8378	0.0349	-0.9994	0.0000	-0.38913	-0.33642	-0.35722	-0.36561
485.2446	86.4211	299.2945	31.4418	0.0349	-0.9994	0.0000	-0.38208	-0.32620	-0.36230	-0.34170
500.0850	86.9394	299.8801	31.4084	0.0349	-0.9994	0.0000	-0.37054	-0.32065	-0.36064	-0.32562
514.6524	87.4479	299.8415	29.6958	0.0349	-0.9994	0.0000	-0.34804	-0.30182	-0.36234	-0.30219
526.3234	87.8554	299.0333	18.6625	0.0349	-0.9994	0.0000	-0.31039	-0.26603	-0.35530	-0.25867
371.7645	80.1641	272.0116	29.2313	0.1564	-0.9877	0.0000	-0.38931	-0.21706	0.53918	-0.17270
378.0562	81.1606	271.0024	27.6856	0.1564	-0.9877	0.0000	-0.02671	0.09429	1.25925	0.08584
384.1539	82.1408	270.8961	25.5485	0.1613	-0.9869	-0.0005	0.27927	0.40066	1.32281	0.38684
389.5230	82.9224	271.1904	23.6735	0.1237	-0.9923	0.0020	0.33142	0.45665	1.07834	0.54589
393.6363	83.2555	271.5320	16.7775	0.0144	-0.9999	-0.0016	0.41023	0.52026	0.68584	0.69540
396.3856	83.3178	271.7649	12.1987	0.0349	-0.9994	0.0000	0.32745	0.42388	0.18449	0.64412
398.2968	83.3845	271.9044	9.0027	0.0349	-0.9994	0.0000	0.32081	0.41643	0.07091	0.64325
399.6833	83.4330	271.9801	6.8598	0.0349	-0.9994	0.0000	0.28350	0.38063	0.02544	0.59933
400.7579	83.4705	272.0156	5.6081	0.0348	-0.9994	0.0000	0.25666	0.35410	0.03324	0.56991
401.5813	83.4992	272.1772	3.9389	0.0350	-0.9994	0.0000	0.22805	0.32727	0.01915	0.54982
402.2524	83.5227	272.6461	3.6974	0.0348	-0.9994	0.0000	0.19651	0.29642	-0.00298	0.52490
402.9288	83.5463	273.4401	3.7133	0.0349	-0.9994	0.0000	0.15585	0.25704	-0.03415	0.48989
403.6639	83.5720	274.5270	3.9208	0.0349	-0.9994	0.0000	0.10831	0.21024	-0.05679	0.44206
404.5015	83.6012	275.8466	.4.2810	0.0349	-0.9994	0.0000	0.05906	0.16086	-0.07755	0.39271
405.4766	83.6353	277.3301	4.7779	0.0349	-0.9994	0.0000	0.00525	0.10648	-0.09950	0.33654
406.6191	83.6752	278.9168	5.3955	0.0349	-0.9994	0.0000	-0.04499	0.05377	-0.11605	0.28124
407.9576	83.7219	280.5644	6.1309	0.0349	-0.9994	0.0000	-0.09716	-0.00122	-0.13601	0.21935
409.5225	83.7766	282.2471	6.9737	0.0349	-0.9994	0.0000	-0.14630	-0.05585	-0.15183	0.15918
411.3489	83.8403	283.9484	7.9385	0.0349	-0.9994	0.0000	-0.19442	-0.11078	-0.17087	0.09738
413.4813	83.9148	285.6588	9.0413	0.0349	-0.9994	0.0000	-0.24124	-0.16725	-0.19058	0.03310
415.9770	84.0019	287.3731	10.3203	0.0349	-0.9994	0.0000	-0.28765	-0.22780	-0.21391	-0.03519
418.9172	84.1046	289.0888	11.8512	0.0349	-0.9994	0.0000	-0.33160	-0.29002	-0.23569	-0.10632
422.4254	84.2272	290.8071	13.7600	0.0349	-0.9994	0.0000	-0.37116	-0.35160	-0.25709	-0.18060
426.6896	84.3760	292.5272	16.1756	0.0349	-0.9994	0.0000	-0.39965	-0.40425	-0.27402	-0.25423
431.9883	84.5611	294.2338	19.1844	0.0349	-0.9994	0.0000	-0.41424	-0.43853	-0.29036	-0.32118
438.6948	84.7953	295.9089	22.6621	0.0349	-0.9994	0.0000	-0.41291	-0.44191	-0.30295	-0.37064
447.1730	85.0913	297.5350	26.0195	0.0349	-0.9994	0.0000	-0.40059	-0.40797	-0.31608	-0.39040
457.5905	85.4551	299.0536	28.5141	0.0349	-0.9994	0.0000	-0.38523	-0.35727	-0.32682	-0.37567
469.8189	85.8822	300.3566	29.8471	0.0349	-0.9994	0.0000	-0.37598	-0.32459	-0.33794	-0.34857
483.4536	86.3585	301.3282	30.2102	0.0349	-0.9994	0.0000	-0.37136	-0.31591	-0.34643	-0.32871
497.8337	86.8608	301.8993	29.9036	0.0349	-0.9994	0.0000	-0.36301	-0.31280	-0.34785	-0.31602
511.9445	87.3533	301.9874	28.3741	0.0349	-0.9994	0.0000	-0.34377	-0.29670	-0.34939	-0.29588
523.6244	87.7611	301.3936	20.0255	0.0349	-0.9994	0.0000	-0.30814	-0.26663	-0.34494	-0.25833
373.3405	80.4137	276.2977	26.2412	0.1564	-0.9877	0.0000	-0.40911	-0.23339	0.41851	-0.17048
378.8903	81.2927	275.2560	25.2408	0.1564	-0.9877	0.0000	-0.03850	0.08553	1.06227	0.10380
384.3227	82.1659	275.3241	23.1386	0.1613	-0.9869	-0.0006	0.20367	0.34064	1.12470	0.36156
389.3758	82.9039	276.0038	24.6064	0.1275	-0.9918	-0.0020	0.22407	0.37150	0.94728	0.48488
393.5220	83.2494	276.8257	18.0393	0.0159	-0.9999	-0.0002	0.27980	0.41512	0.58440	0.60575
396.3286	83.3158	277.4509	13.5810	0.0349	-0.9994	0.0000	0.18939	0.30625	0.08994	0.52498
398.3064	83.3849	277.8656	10.3104	0.0349	-0.9994	0.0000	0.18452	0.29738	0.00279	0.51205
399.7506	83.4353	278.1027	7.9507	0.0349	-0.9994	0.0000	0.14542	0.25560	-0.02850	0.45476
400.8554	83.4739	278.1999	6.3868	0.0349	-0.9994	0.0000	0.12767	0.23388	-0.00109	0.42349
401.7029	83.5035	278.3326	4.6585	0.0349	-0.9994	0.0000	0.10399	0.20980	-0.00746	0.40275
402.4363	83.5291	278.7274	4.6791	0.0348	-0.9994	0.0000	0.08429	0.18827	-0.01866	0.38606
403.2122	83.5562	279.4407	4.8137	0.0350	-0.9994	0.0000	0.05194	0.15587	-0.04476	0.35762
404.0614	83.5858	280.4310	5.0622	0.0349	-0.9994	0.0000	0.01850	0.12107	-0.05956	0.32236
405.0129	83.6191	281.6308	5.4093	0.0349	-0.9994	0.0000	-0.01867	0.08280	-0.07601	0.28337
406.0917	83.6568	282.9684	5.8459	0.0349	-0.9994	0.0000	-0.05696	0.04253	-0.08864	0.24145
407.3200	83.6997	284.3841	6.3599	0.0349	-0.9994	0.0000	-0.09465	0.00177	-0.10125	0.19751
408.7198	83.7485	285.8370	6.9533	0.0349	-0.9994	0.0000	-0.13321	-0.04078	-0.11589	0.15007
410.3154	83.8042	287.3031	7.6203	0.0349	-0.9994	0.0000	-0.17063	-0.08420	-0.13065	0.10284
412.1363	83.8678	288.7695	8.3850	0.0349	-0.9994	0.0000	-0.20824	-0.12943	-0.14647	0.05391
414.2222	83.9407	290.2319	9.2788	0.0349	-0.9994	0.0000	-0.24497	-0.17694	-0.16118	0.00254
416.6272	84.0247	291.6904	10.3560	0.0349	-0.9994	0.0000	-0.28015	-0.22642	-0.17903	-0.05274
419.4325	84.1226	293.1478	11.7144	0.0349	-0.9994	0.0000	-0.31137	-0.27541	-0.19800	-0.11107
422.7641	84.2390	294.6063	13.4886	0.0349	-0.9994	0.0000	-0.33720	-0.32189	-0.21898	-0.17217
426.8134	84.3804	296.0613	15.7955	0.0349	-0.9994	0.0000	-0.35708	-0.36309	-0.23878	-0.23479
431.8628	84.5567	297.4881	18.7183	0.0349	-0.9994	0.0000	-0.37227	-0.39523	-0.26008	-0.29700
438.2936	84.7813	298.8672	22.1551	0.0349	-0.9994	0.0000	-0.37919	-0.40575	-0.27987	-0.34903
446.4735	85.0669	300.1992	25.5061	0.0349	-0.9994	0.0000	-0.37666	-0.38280	-0.29931	-0.37420
456.5662	85.4194	301.4498	27.9941	0.0349	-0.9994	0.0000	-0.36814	-0.34076	-0.31465	-0.36442
468.4361	85.8339	302.5364	29.2763	0.0349	-0.9994	0.0000	-0.36180	-0.31059	-0.32768	-0.33995
481.6711	86.2962	303.3675	29.5071	0.0349	-0.9994	0.0000	-0.35849	-0.30137	-0.33681	-0.32009
495.6197	86.7834	303.8953	28.9844	0.0349	-0.9994	0.0000	-0.35158	-0.29898	-0.33832	-0.30711
509.3277	87.2620	304.0790	27.5627	0.0349	-0.9994	0.0000	-0.33437	-0.28575	-0.33901	-0.28856
520.9894	87.6691	303.7201	21.3323	0.0349	-0.9994	0.0000	-0.30544	-0.26468	-0.34104	-0.26086
375.3121	80.7260	280.4728	23.1310	0.1564	-0.9877	0.0000	-0.40980	-0.23310	0.23329	-0.14138
380.1879	81.4982	279.5103	22.1181	0.1564	-0.9877	0.0000	-0.03158	0.09422	0.73645	0.15132
385.0320	82.2788	279.8054	19.9647	0.1622	-0.9868	-0.0009	0.14734	0.29682	0.76025	0.36312
389.7977	82.9379	280.9424	23.6519	0.1150	-0.9934	-0.0043	0.14279	0.30689	0.69036	0.44934
393.9123	83.2551	282.3404	17.3544	0.0206	-0.9998	-0.0005	0.15820	0.31418	0.40864	0.51108
396.6722	83.3278	283.4177	13.0592	0.0349	-0.9994	0.0000	0.06999	0.20647	0.01840	0.41300
398.6044	83.3953	284.1429	9.9235	0.0349	-0.9994	0.0000	0.06636	0.19759	-0.02455	0.39577
400.0114	83.4444	284.5657	7.6810	0.0349	-0.9994	0.0000	0.03006	0.15665	-0.04152	0.33860
401.0874	83.4820	284.7477	6.2014	0.0349	-0.9994	0.0000	0.02084	0.14126	-0.00707	0.31124

401.9304	83.5114	284.8720	4.7747	0.0349	-0.9994	0.0000	0.00312	0.12193	-0.01163	0.29404
402.7007	83.5383	285.1927	5.0881	0.0348	-0.9994	0.0000	-0.00804	0.10715	-0.01932	0.28283
403.5421	83.5677	285.7928	5.3484	0.0350	-0.9994	0.0000	-0.03205	0.08177	-0.04207	0.26057
404.4627	83.5999	286.6255	5.6154	0.0349	-0.9994	0.0000	-0.05515	0.05571	-0.05467	0.23422
405.4763	83.6353	287.6243	5.9144	0.0349	-0.9994	0.0000	-0.08218	0.02657	-0.06924	0.20458
406.5985	83.6744	288.7270	6.2602	0.0349	-0.9994	0.0000	-0.10937	-0.00399	-0.07815	0.17304
407.8457	83.7180	289.8857	6.6590	0.0349	-0.9994	0.0000	-0.13710	-0.03583	-0.08787	0.13883
409.2372	83.7666	291.0703	7.1281	0.0349	-0.9994	0.0000	-0.16506	-0.06916	-0.09893	0.10204
410.7959	83.8210	292.2653	7.6737	0.0349	-0.9994	0.0000	-0.19261	-0.10368	-0.11195	0.06464
412.5518	83.8823	293.4653	8.3360	0.0349	-0.9994	0.0000	-0.21999	-0.13972	-0.12483	0.02642
414.5465	83.9520	294.6720	9.1554	0.0349	-0.9994	0.0000	-0.24622	-0.17679	-0.13630	-0.01320
416.8376	84.0320	295.8888	10.1905	0.0349	-0.9994	0.0000	-0.27115	-0.21458	-0.15012	-0.05581
419.5102	84.1253	297.1174	11.5407	0.0349	-0.9994	0.0000	-0.29399	-0.25217	-0.16615	-0.10124
422.6958	84.2366	298.3541	13.3358	0.0349	-0.9994	0.0000	-0.31500	-0.28969	-0.18498	-0.14996
426.5873	84.3725	299.5831	15.6573	0.0349	-0.9994	0.0000	-0.33372	-0.32631	-0.20330	-0.20220
431.4663	84.5429	300.7613	18.5741	0.0349	-0.9994	0.0000	-0.34746	-0.35637	-0.22255	-0.25608
437.7104	84.7609	301.8649	21.9982	0.0349	-0.9994	0.0000	-0.35170	-0.36743	-0.24050	-0.30267
445.6725	85.0390	302.9149	25.3263	0.0349	-0.9994	0.0000	-0.34822	-0.35010	-0.25976	-0.32917
455.5007	85.3822	303.9025	27.8128	0.0349	-0.9994	0.0000	-0.34197	-0.31601	-0.27830	-0.32679
467.0554	85.7857	304.7697	29.0953	0.0349	-0.9994	0.0000	-0.33902	-0.29130	-0.29643	-0.31077
479.9289	86.2354	305.4485	29.2710	0.0349	-0.9994	0.0000	-0.33938	-0.28507	-0.31139	-0.29785
493.4896	86.7090	305.9074	28.5897	0.0349	-0.9994	0.0000	-0.33714	-0.28615	-0.31824	-0.29039
506.8554	87.1756	306.1461	27.1555	0.0349	-0.9994	0.0000	-0.32494	-0.27582	-0.32274	-0.27552
518.4446	87.5802	306.0227	22.3965	0.0349	-0.9994	0.0000	-0.29735	-0.26144	-0.33014	-0.25669
377.6157	81.0908	284.4999	20.1327	0.1564	-0.9877	0.0000	-0.38500	-0.21221	0.07806	-0.09689
381.8855	81.7671	283.6749	18.8661	0.1564	-0.9877	0.0000	-0.00825	0.11559	0.44178	0.19978
386.2026	82.4666	284.2249	16.5799	0.1644	-0.9864	-0.0019	0.09834	0.25881	0.42603	0.35567
390.6537	83.0143	285.8334	21.2190	0.0859	-0.9963	0.0013	0.08750	0.25869	0.46114	0.41474
394.6153	83.2670	287.7813	15.1211	0.0287	-0.9996	-0.0016	0.05638	0.22280	0.23687	0.40732
397.2058	83.3465	289.2299	11.1228	0.0349	-0.9994	0.0000	-0.01843	0.13098	-0.00418	0.31740
398.9975	83.4090	290.1853	8.3587	0.0349	-0.9994	0.0000	-0.02275	0.12211	-0.02123	0.30159
400.3027	83.4545	290.7427	6.4984	0.0349	-0.9994	0.0000	-0.05401	0.08673	-0.03198	0.25555
401.3155	83.4899	290.9936	5.3672	0.0349	-0.9994	0.0000	-0.05898	0.07573	-0.00250	0.23432
402.1348	83.5185	291.1198	4.3432	0.0349	-0.9994	0.0000	-0.07256	0.06098	-0.00693	0.22204
402.9127	83.5457	291.3783	4.7989	0.0349	-0.9994	0.0000	-0.07881	0.05111	-0.01283	0.21458
403.7732	83.5758	291.8648	5.1186	0.0349	-0.9994	0.0000	-0.09567	0.03228	-0.03165	0.19742
404.7083	83.6084	292.5319	5.3895	0.0349	-0.9994	0.0000	-0.11060	0.01327	-0.04357	0.17691
405.7211	83.6438	293.3217	5.6615	0.0349	-0.9994	0.0000	-0.12858	-0.00828	-0.05765	0.15425
406.8219	83.6822	294.1861	5.9686	0.0349	-0.9994	0.0000	-0.14629	-0.03124	-0.06614	0.13015
408.0253	83.7243	295.0926	6.3277	0.0349	-0.9994	0.0000	-0.16468	-0.05571	-0.07502	0.10342
409.3517	83.7706	296.0238	6.7731	0.0349	-0.9994	0.0000	-0.18329	-0.08184	-0.08619	0.07369
410.8269	83.8221	296.9741	7.3147	0.0349	-0.9994	0.0000	-0.20210	-0.10958	-0.10066	0.04249
412.4852	83.8800	297.9448	8.0054	0.0349	-0.9994	0.0000	-0.22135	-0.13942	-0.11486	0.01000
414.3733	83.9460	298.9415	8.8838	0.0349	-0.9994	0.0000	-0.24080	-0.17127	-0.12732	-0.02473
416.5534	84.0221	299.9674	10.0030	0.0349	-0.9994	0.0000	-0.26085	-0.20585	-0.14124	-0.06417
419.1158	84.1116	301.0193	11.4636	0.0349	-0.9994	0.0000	-0.28120	-0.24304	-0.15809	-0.10920
422.1986	84.2193	302.0834	13.3968	0.0349	-0.9994	0.0000	-0.30175	-0.28270	-0.17889	-0.16031
425.9966	84.3519	303.1293	15.8371	0.0349	-0.9994	0.0000	-0.32076	-0.31993	-0.20047	-0.21466
430.7882	84.5192	304.0891	18.8245	0.0349	-0.9994	0.0000	-0.33664	-0.34878	-0.22439	-0.26835
436.9399	84.7340	304.9331	22.2757	0.0349	-0.9994	0.0000	-0.34449	-0.35868	-0.24694	-0.31283
444.7720	85.0075	305.7108	25.5767	0.0349	-0.9994	0.0000	-0.34373	-0.34225	-0.26752	-0.33535
454.4028	85.3439	306.4413	28.0696	0.0349	-0.9994	0.0000	-0.33872	-0.30988	-0.28489	-0.33058
465.6927	85.7381	307.0891	29.4008	0.0349	-0.9994	0.0000	-0.33528	-0.28454	-0.29980	-0.31273
478.2496	86.1767	307.6078	29.5940	0.0349	-0.9994	0.0000	-0.33436	-0.27575	-0.31116	-0.29698
491.4718	86.6385	307.9769	28.8233	0.0349	-0.9994	0.0000	-0.33086	-0.27510	-0.31531	-0.28662
504.5568	87.0953	308.2249	27.2560	0.0349	-0.9994	0.0000	-0.31799	-0.26556	-0.31826	-0.27155
516.0041	87.4950	308.3159	23.1433	0.0349	-0.9994	0.0000	-0.29364	-0.25515	-0.32626	-0.25874
380.2108	81.5018	288.3630	17.3088	0.1564	-0.9877	0.0000	-0.31809	-0.14537	0.01872	-0.01910
383.9131	82.0894	287.7360	15.6585	0.1570	-0.9876	0.0003	0.02976	0.15964	0.27714	0.25657
387.6894	82.6996	288.5774	13.2766	0.1642	-0.9864	-0.0048	0.06389	0.24024	0.24512	0.36000
391.6882	83.1127	290.5990	18.2422	0.0485	-0.9988	0.0109	0.07172	0.24870	0.36050	0.40637
395.3178	83.2827	292.9324	12.6102	0.0339	-0.9994	-0.0007	-0.00198	0.16109	0.12024	0.31702
397.6504	83.3620	294.5705	9.1066	0.0349	-0.9994	0.0000	-0.04919	0.09581	0.01394	0.25241
399.2735	83.4186	295.6305	6.8032	0.0349	-0.9994	0.0000	-0.05937	0.08130	-0.01372	0.23517
400.4741	83.4605	296.2584	5.3224	0.0349	-0.9994	0.0000	-0.08346	0.05258	-0.02537	0.20050
401.4264	83.4938	296.5621	4.4802	0.0349	-0.9994	0.0000	-0.09066	0.04049	-0.01017	0.18191
402.2126	83.5212	296.7092	3.7081	0.0350	-0.9994	0.0000	-0.10244	0.02797	-0.01409	0.17192
402.9626	83.5475	296.9388	4.1510	0.0349	-0.9994	0.0000	-0.10699	0.02010	-0.01793	0.16616
403.7849	83.5762	297.3441	4.4692	0.0348	-0.9994	0.0000	-0.11865	0.00548	-0.03114	0.15218
404.6678	83.6070	297.8807	4.7412	0.0349	-0.9994	0.0000	-0.12783	-0.00896	-0.04051	0.13532
405.6134	83.6400	298.5030	5.0170	0.0349	-0.9994	0.0000	-0.13894	-0.02457	-0.05122	0.11830
406.6325	83.6756	299.1788	5.3347	0.0349	-0.9994	0.0000	-0.14992	-0.04108	-0.05693	0.10126
407.7419	83.7144	299.8895	5.7155	0.0349	-0.9994	0.0000	-0.16151	-0.05815	-0.06121	0.08295
408.9655	83.7571	300.6292	6.2083	0.0349	-0.9994	0.0000	-0.17350	-0.07617	-0.06765	0.06222
410.3335	83.8049	301.3996	6.8191	0.0349	-0.9994	0.0000	-0.18595	-0.09522	-0.07799	0.04017
411.8848	83.8591	302.2070	7.6134	0.0349	-0.9994	0.0000	-0.19879	-0.11540	-0.08732	0.01813
413.6716	83.9215	303.0593	8.6264	0.0349	-0.9994	0.0000	-0.21193	-0.13692	-0.09327	-0.00469
415.7606	83.9944	303.9574	9.9013	0.0349	-0.9994	0.0000	-0.22549	-0.16049	-0.09893	-0.03060
418.2471	84.0812	304.8921	11.5530	0.0349	-0.9994	0.0000	-0.23896	-0.18613	-0.10745	-0.06152
421.2797	84.1871	305.8380	13.7289	0.0349	-0.9994	0.0000	-0.25261	-0.21509	-0.12110	-0.09869
425.0559	84.3190	306.7483	16.3941	0.0349	-0.9994	0.0000	-0.26634	-0.24657	-0.13796	-0.14268
429.8491	84.4864	307.5201	19.5425	0.0349	-0.9994	0.0000	-0.28031	-0.27809	-0.15905	-0.19321
436.0061	84.7014	308.1166	23.0936	0.0349	-0.9994	0.0000	-0.29003	-0.29778	-0.18078	-0.24105
443.7960	84.9734	308.6299	26.4140	0.0349	-0.9994	0.0000	-0.29495	-0.29383	-0.20442	-0.27189
453.2973	85.3052	309.1110	28.9863	0.0349	-0.9994	0.0000	-0.29674	-0.27372	-0.22868	-0.27777
464.3755	85.6921	309.5430	30.4703	0.0349	-0.9994	0.0000	-0.29914	-0.25703	-0.25216	-0.27102
476.6653	86.1213	309.8978	30.7881	0.0349	-0.9994	0.0000	-0.30413	-0.25357	-0.27290	-0.26484
489.6011	86.5731	310.1621	30.0207	0.0349	-0.9994	0.0000	-0.30810	-0.25848	-0.28641	-0.26297
502.4650	87.0222	310.3739	28.2415	0.0349	-0.9994	0.0000	-0.30378	-0.25327	-0.30020	-0.25350
513.6833	87.4140	310.6269	23.5304	0.0349	-0.9994	0.0000	-0.27771	-0.25296	-0.31587	-0.25521
383.0906	81.9579	292.1020	14.5688	0.1564	-0.9877	0.0000	-0.21173	-0.05535	-0.01354	0.06286
386.1646	82.4536	291.8371	12.2676	0.1615	-0.9869	0.0002	0.08045	0.18545	0.10937	0.27164
389.1965	82.9209	293.0104	10.3134	0.1418	-0.9899	-0.0011	0.04311	0.20579	0.11630	0.33197
392.4869	83.1826	295.2488	16.0631	0.0311	-0.9995	0.0045	0.06697	0.20342	0.20281	0.33503
395.6176	83.2910	297.6758	10.9915	0.0349	-0.9994	0.0000	-0.02599	0.08384	-0.01208	0.19945
397.6830	83.3631	299.3022	7.8670	0.0349	-0.9994	0.0000	-0.04509	0.05119	-0.01654	0.17240
399.1679	83.4150	300.3690	5.8549	0.0349	-0.9994	0.0000	-0.05871	0.03723	-0.04754	0.15876
400.2922	83.4542	301.0378	4.5703	0.0349	-0.9994	0.0000	-0.07390	0.01936	-0.04968	0.13898
401.1964	83.4857	301.4090	3.8305	0.0349	-0.9994	0.0000	-0.08244	0.00854	-0.04619	0.12587
401.9385	83.5117	301.6179	3.1275	0.0350	-0.9994	0.0000	-0.09186	-0.00198	-0.05018	0.11806
402.6247	83.5357	301.8627	3.4922	0.0349	-0.9994	0.0000	-0.09649	-0.01064	-0.05613	0.11102
403.3594	83.5613	302.2257	3.7842	0.0349	-0.9994	0.0000	-0.10596	-0.02362	-0.06489	0.09832
404.1411	83.5886	302.6721	4.0581	0.0349	-0.9994	0.0000	-0.11393	-0.03703	-0.07359	0.08286
404.9788	83.6179	303.1743	4.3528	0.0349	-0.9994	0.0000	-0.12310	-0.05102	-0.08376	0.06762
405.8877	83.6496	303.7169	4.7026	0.0349	-0.9994	0.0000	-0.13270	-0.06606	-0.09141	0.05282
406.8873	83.6845	304.2938	5.1277	0.0349	-0.9994	0.0000	-0.14308	-0.08177	-0.09835	0.03697

408.0050	83.7236	304.9075	5.6927	0.0349	-0.9994	0.0000	-0.15447	-0.09865	-0.10860	0.01819
409.2743	83.7679	305.5648	6.3924	0.0349	-0.9994	0.0000	-0.16698	-0.11687	-0.12418	-0.00306
410.7380	83.8190	306.2753	7.3136	0.0349	-0.9994	0.0000	-0.18074	-0.13698	-0.14036	-0.02577
412.4542	83.8789	307.0487	8.4884	0.0349	-0.9994	0.0000	-0.19552	-0.15916	-0.15289	-0.05018
414.4936	83.9502	307.8840	9.9489	0.0349	-0.9994	0.0000	-0.21174	-0.18460	-0.16393	-0.07878
416.9590	84.0363	308.7653	11.8421	0.0349	-0.9994	0.0000	-0.22824	-0.21261	-0.17599	-0.11251
420.0141	84.1429	309.6542	14.3502	0.0349	-0.9994	0.0000	-0.24659	-0.24431	-0.19301	-0.15343
423.8593	84.2772	310.4856	17.3487	0.0349	-0.9994	0.0000	-0.26327	-0.27373	-0.20920	-0.19730
428.7528	84.4481	311.1080	20.7631	0.0349	-0.9994	0.0000	-0.28257	-0.29884	-0.22808	-0.24278
435.0060	84.6665	311.4751	24.5586	0.0349	-0.9994	0.0000	-0.29447	-0.30819	-0.24232	-0.27988
442.8264	84.9395	311.7399	28.1045	0.0349	-0.9994	0.0000	-0.29829	-0.29604	-0.25406	-0.29677
452.2562	85.2688	311.9893	31.0166	0.0349	-0.9994	0.0000	-0.29866	-0.27173	-0.26553	-0.29334
463.1743	85.6501	312.2179	32.9221	0.0349	-0.9994	0.0000	-0.29887	-0.25176	-0.27573	-0.28040
475.2502	86.0719	312.4127	33.5902	0.0349	-0.9994	0.0000	-0.30007	-0.24338	-0.28436	-0.26797
487.9561	86.5156	312.5652	32.9708	0.0349	-0.9994	0.0000	-0.29956	-0.24332	-0.28854	-0.25975
500.6508	86.9589	312.7026	30.9959	0.0349	-0.9994	0.0000	-0.29120	-0.23744	-0.29630	-0.24934
511.5132	87.3382	313.0117	23.4665	0.0349	-0.9994	0.0000	-0.27736	-0.23930	-0.30692	-0.25340
385.9665	82.4135	296.1500	8.4680	0.1564	-0.9877	0.0000	-0.22796	0.01383	0.13410	0.13801
387.9320	82.7324	296.6582	10.0197	0.1661	-0.9861	-0.0050	0.08601	0.22259	0.21298	0.31653
389.8223	83.0154	297.8507	9.2521	0.1278	-0.9918	0.0024	0.01665	0.22966	0.30060	0.37754
392.2881	83.1798	299.8198	16.9568	0.0337	-0.9994	-0.0025	0.10211	0.26934	0.38355	0.41404
394.9988	83.2694	301.9815	11.2560	0.0349	-0.9994	0.0000	-0.02464	0.13835	0.19839	0.28002
396.9332	83.3369	303.4428	7.8190	0.0349	-0.9994	0.0000	-0.02571	0.11209	0.22764	0.25565
398.3651	83.3869	304.4456	5.6307	0.0349	-0.9994	0.0000	-0.04452	0.09092	0.18875	0.23218
399.4440	83.4246	305.1297	4.2101	0.0349	-0.9994	0.0000	-0.06007	0.07009	0.18642	0.20711
400.2782	83.4537	305.5811	3.3042	0.0349	-0.9994	0.0000	-0.07022	0.05538	0.17809	0.18828
400.9356	83.4767	305.8898	2.6826	0.0349	-0.9994	0.0000	-0.07896	0.04667	0.17708	0.17875
401.5358	83.4976	306.1864	3.0095	0.0349	-0.9994	0.0000	-0.08403	0.04007	0.17370	0.17378
402.1797	83.5201	306.5380	3.2989	0.0349	-0.9994	0.0000	-0.09046	0.03207	0.16892	0.16617
402.8749	83.5444	306.9325	3.5910	0.0349	-0.9994	0.0000	-0.09563	0.02420	0.16257	0.15717
403.6340	83.5709	307.3633	3.9153	0.0350	-0.9994	0.0000	-0.10062	0.01619	0.15440	0.14813
404.4729	83.6002	307.8295	4.3041	0.0349	-0.9994	0.0000	-0.10510	0.00804	0.14707	0.13987
405.4109	83.6330	308.3337	4.7703	0.0349	-0.9994	0.0000	-0.10949	-0.00090	0.13927	0.13057
406.4773	83.6702	308.8841	5.4023	0.0349	-0.9994	0.0000	-0.11396	-0.01090	0.12829	0.11888
407.7077	83.7132	309.4906	6.1696	0.0349	-0.9994	0.0000	-0.11848	-0.02216	0.11267	0.10433
409.1489	83.7635	310.1649	7.1978	0.0349	-0.9994	0.0000	-0.12369	-0.03537	0.09500	0.08757
410.8666	83.8235	310.9203	8.5164	0.0349	-0.9994	0.0000	-0.12938	-0.05116	0.07823	0.06795
412.9391	83.8958	311.7547	10.1446	0.0349	-0.9994	0.0000	-0.13675	-0.07160	0.05927	0.04258
415.4802	83.9846	312.6460	12.2762	0.0349	-0.9994	0.0000	-0.14408	-0.09660	0.03647	0.00996
418.6697	84.0960	313.5405	15.1145	0.0349	-0.9994	0.0000	-0.15403	-0.13057	0.00286	-0.03496
422.7081	84.2370	314.3561	18.5183	0.0349	-0.9994	0.0000	-0.16276	-0.17017	-0.03359	-0.08864
427.8113	84.4152	314.8884	22.3591	0.0349	-0.9994	0.0000	-0.17536	-0.21228	-0.07962	-0.15401
434.2185	84.6390	315.0812	26.7434	0.0349	-0.9994	0.0000	-0.18815	-0.23227	-0.11447	-0.20587
442.0945	84.9140	315.1545	31.1679	0.0349	-0.9994	0.0000	-0.20045	-0.22911	-0.14353	-0.22618
451.4866	85.2420	315.2244	35.2051	0.0349	-0.9994	0.0000	-0.21328	-0.21872	-0.17491	-0.22823
462.2968	85.6195	315.2903	38.2765	0.0349	-0.9994	0.0000	-0.22622	-0.21195	-0.20500	-0.22548
474.2256	86.0360	315.3488	39.8755	0.0349	-0.9994	0.0000	-0.24174	-0.21465	-0.23181	-0.22486
486.7727	86.4742	315.3969	39.6844	0.0349	-0.9994	0.0000	-0.25849	-0.22633	-0.25168	-0.22911
499.3278	86.9127	315.4430	37.5988	0.0349	-0.9994	0.0000	-0.26936	-0.23002	-0.28340	-0.22795
509.5863	87.2709	315.5940	22.5629	0.0349	-0.9994	0.0000	-0.25944	-0.25999	-0.30338	-0.26843

pylon for upper

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
405.3636	68.0848	257.3818	2.1302	-0.9991	0.0003	0.0436	0.83153	0.75812	0.28509	1.02763
405.4189	67.7939	258.1700	2.3591	-0.9955	0.0003	0.0946	0.71578	0.66488	0.16700	0.95166
405.5279	67.4705	259.0208	2.6295	-0.9876	0.0003	0.1569	0.67323	0.61661	0.13805	0.94321
405.7138	67.1111	259.9382	2.9576	-0.9716	0.0004	0.2367	0.57055	0.52576	0.05666	0.87171
406.0002	66.7111	260.9263	3.3562	-0.9487	0.0004	0.3162	0.48464	0.44689	0.01759	0.80926
406.3986	66.2623	261.9940	3.8548	-0.9252	0.0005	0.3796	0.38450	0.35829	-0.03440	0.72240
406.9357	65.7580	263.1477	4.4786	-0.8882	0.0006	0.4595	0.26458	0.25246	-0.10384	0.62301
407.6604	65.1888	264.3982	5.3459	-0.8434	0.0006	0.5373	0.15229	0.15672	-0.15717	0.52213
408.6078	64.5382	265.7641	6.4252	-0.8014	0.0009	0.5981	0.05086	0.07025	-0.17603	0.42207
409.8381	63.7863	267.2582	7.9340	-0.7451	0.0008	0.6669	-0.07786	-0.04198	-0.23647	0.29286
411.4410	62.9047	268.9042	10.0196	-0.6910	0.0010	0.7228	-0.16526	-0.11932	-0.23433	0.19046
413.5298	61.8637	270.7238	12.9469	-0.6272	0.0009	0.7789	-0.25870	-0.20357	-0.25566	0.07660
416.2596	60.6291	272.7337	17.1001	-0.5637	0.0009	0.8260	-0.33748	-0.28185	-0.25111	-0.03100
419.8252	59.1547	274.9507	23.0552	-0.4982	0.0009	0.8671	-0.38913	-0.34301	-0.24556	-0.12583
424.4854	57.4409	277.3850	31.6675	-0.4339	0.0013	0.9010	-0.41085	-0.38086	-0.21971	-0.20188
430.5391	55.4768	279.9862	43.5830	-0.3624	0.0008	0.9320	-0.43587	-0.42475	-0.23216	-0.28743
438.2630	53.1964	282.6677	59.8393	-0.2995	0.0003	0.9541	-0.41572	-0.41105	-0.21388	-0.32757
447.9002	50.6262	285.3239	81.4309	-0.2375	0.0004	0.9714	-0.37701	-0.35059	-0.20725	-0.32574
459.6024	47.9262	287.7880	108.0938	-0.1790	0.0011	0.9839	-0.34484	-0.28995	-0.20396	-0.29958
473.3315	45.4708	289.8006	137.4689	-0.1148	0.0011	0.9934	-0.34480	-0.27727	-0.24430	-0.29264
488.7430	43.7873	291.1021	163.6295	-0.0558	0.0004	0.9984	-0.34441	-0.28386	-0.28597	-0.29310
505.1122	43.2819	291.5533	179.1431	-0.0001	0.0001	1.0000	-0.34091	-0.29268	-0.33042	-0.29672
521.4813	44.1483	291.0950	179.2335	0.0569	0.0003	0.9984	-0.33662	-0.29496	-0.37807	-0.29744
536.5912	46.1623	289.7937	158.7496	0.1187	-0.0006	0.9929	-0.33213	-0.28776	-0.43053	-0.28808
405.3644	70.8356	257.3840	2.0608	-0.9990	0.0002	0.0438	0.86981	0.80852	0.29110	1.06150
405.4205	70.6031	258.1783	2.2824	-0.9954	0.0003	0.0953	0.74592	0.70615	0.14270	0.97156
405.5313	70.3451	259.0362	2.5437	-0.9874	0.0003	0.1582	0.69535	0.65338	0.08140	0.96195
405.7207	70.0591	259.9615	2.8600	-0.9710	0.0004	0.2390	0.57398	0.54803	-0.03236	0.87824
406.0122	69.7416	260.9582	3.2440	-0.9480	0.0004	0.3182	0.47517	0.45890	-0.09454	0.80928
406.4174	69.3862	262.0353	3.7240	-0.9240	0.0005	0.3823	0.36491	0.36281	-0.16318	0.71546
406.9643	68.9883	263.1986	4.3221	-0.8861	0.0005	0.4635	0.22874	0.24299	-0.25596	0.60900
407.7014	68.5409	264.4587	5.1521	-0.8415	0.0005	0.5403	0.10450	0.13587	-0.31939	0.50336
408.6640	68.0315	265.8341	6.1847	-0.7987	0.0008	0.6017	-0.00711	0.04021	-0.34920	0.39790
409.9132	67.4454	267.3375	7.6241	-0.7423	0.0007	0.6701	-0.14504	-0.08097	-0.41425	0.26297
411.5389	66.7616	268.9923	9.6105	-0.6879	0.0009	0.7258	-0.25000	-0.17519	-0.42525	0.14675
413.6548	65.9591	270.8199	12.3879	-0.6241	0.0007	0.7814	-0.35714	-0.27420	-0.45539	0.02081
416.4166	65.0145	272.8360	16.3159	-0.5605	0.0008	0.8282	-0.43818	-0.35648	-0.44939	-0.09159
420.0193	63.8966	275.0570	21.9268	-0.4951	0.0008	0.8688	-0.49811	-0.42938	-0.44359	-0.19789
424.7190	62.6145	277.4901	29.9770	-0.4307	0.0011	0.9025	-0.52932	-0.48375	-0.42144	-0.29005
430.8106	61.1707	280.0870	41.0749	-0.3604	0.0007	0.9328	-0.54632	-0.53131	-0.42046	-0.37892
438.5722	59.5266	282.7625	56.1405	-0.2974	0.0002	0.9548	-0.52322	-0.52806	-0.39803	-0.43035
448.2448	57.7200	285.4055	75.9701	-0.2354	0.0003	0.9719	-0.48721	-0.47747	-0.39419	-0.44404
459.9700	55.8941	287.8458	100.2050	-0.1766	0.0010	0.9843	-0.45388	-0.41045	-0.38993	-0.42298
473.6928	54.3511	289.8329	126.5143	-0.1137	0.0010	0.9935	-0.44120	-0.37883	-0.40769	-0.39956
489.0552	53.4931	291.1157	149.5315	-0.0550	0.0004	0.9985	-0.42605	-0.36785	-0.41593	-0.37975
505.3416	53.5991	291.5525	162.7450	0.0006	0.0001	1.0000	-0.40837	-0.36097	-0.42072	-0.36592
521.6207	54.7638	291.0839	162.1622	0.0577	0.0003	0.9983	-0.38997	-0.34776	-0.42924	-0.35091
536.0919	56.7131	289.8600	131.2804	0.1171	-0.0007	0.9931	-0.36971	-0.32295	-0.43817	-0.32348
405.3652	73.4278	257.3860	1.9167	-0.9990	0.0003	0.0440	0.91027	0.85572	0.29927	1.11078
405.4221	73.2487	258.1862	2.1220	-0.9954	0.0003	0.0959	0.79020	0.75381	0.16064	1.01767
405.5346	73.0504	259.0507	2.3637	-0.9872	0.0003	0.1596	0.74756	0.70934	0.10827	1.01290
405.7272	72.8313	259.9835	2.6555	-0.9705	0.0004	0.2411	0.62059	0.59895	-0.00450	0.91991
406.0234	72.5890	260.9882	3.0091	-0.9474	0.0004	0.3202	0.52054	0.50878	-0.07107	0.85164
406.4349	72.3189	262.0742	3.4508	-0.9230	0.0004	0.3849	0.40492	0.40823	-0.14916	0.75687
406.9911	72.0177	263.2464	3.9985	-0.8842	0.0005	0.4671	0.26191	0.28251	-0.24684	0.65004
407.7397	71.6808	264.5154	4.7569	-0.8397	0.0004	0.5430	0.13062	0.16840	-0.31087	0.54036
408.7165	71.2994	265.8997	5.6991	-0.7962	0.0006	0.6051	0.00987	0.06405	-0.34761	0.42768
409.9832	70.8632	267.4115	7.0077	-0.7397	0.0006	0.6730	-0.13542	-0.06487	-0.41308	0.28741
411.6301	70.3579	269.0745	8.8084	-0.6850	0.0007	0.7286	-0.25087	-0.16996	-0.42799	0.16324
413.7712	69.7697	270.9092	11.3124	-0.6212	0.0006	0.7837	-0.36834	-0.28063	-0.46184	0.02798
416.5624	69.0846	272.9310	14.8360	-0.5575	0.0006	0.8302	-0.45667	-0.37165	-0.46151	-0.09367
420.1988	68.2840	275.1554	19.8379	-0.4922	0.0006	0.8705	-0.52328	-0.45375	-0.46091	-0.21048
424.9342	67.3834	277.5870	26.9370	-0.4278	0.0009	0.9039	-0.55823	-0.51605	-0.44156	-0.31301
431.0598	66.3954	280.1796	36.6456	-0.3586	0.0006	0.9335	-0.57278	-0.56698	-0.43489	-0.40780
438.8543	65.3037	282.8489	49.6902	-0.2955	0.0001	0.9553	-0.54671	-0.56245	-0.40904	-0.46462
448.5572	64.1530	285.4796	66.5955	-0.2334	0.0001	0.9724	-0.50560	-0.50199	-0.40000	-0.47567
460.3011	63.0678	287.8980	86.8742	-0.1745	0.0009	0.9847	-0.46736	-0.42446	-0.39238	-0.44588
474.0157	62.2841	289.8619	108.3243	-0.1127	0.0010	0.9936	-0.45005	-0.38627	-0.40321	-0.41179
489.3321	62.0930	291.1278	126.4203	-0.0543	0.0003	0.9985	-0.43484	-0.37412	-0.40783	-0.38713
505.5434	62.6673	291.5517	135.9858	0.0013	0.0001	1.0000	-0.41870	-0.36662	-0.41123	-0.37162
521.7425	64.0233	291.0741	134.1585	0.0584	0.0003	0.9983	-0.40286	-0.35246	-0.42713	-0.35502
535.6623	65.8410	289.9171	99.3102	0.1155	-0.0008	0.9933	-0.38210	-0.32465	-0.43756	-0.32340
405.3659	75.7816	257.3879	1.7187	-0.9990	0.0003	0.0442	0.95619	0.90819	0.31047	1.15685
405.4235	75.6488	258.1933	1.9015	-0.9953	0.0003	0.0963	0.82946	0.79977	0.16972	1.05992
405.5375	75.5022	259.0639	2.1166	-0.9870	0.0003	0.1607	0.78889	0.75794	0.12989	1.05051
405.7332	75.3411	260.0033	2.3755	-0.9700	0.0004	0.2429	0.65390	0.64006	0.01454	0.94732
406.0335	75.1639	261.0153	2.6885	-0.9468	0.0003	0.3219	0.55075	0.54699	-0.06621	0.88007
406.4509	74.9674	262.1093	3.0791	-0.9220	0.0004	0.3871	0.43015	0.44140	-0.15834	0.78739
407.0153	74.7496	263.2894	3.5613	-0.8825	0.0004	0.4703	0.28107	0.30964	-0.26045	0.67850
407.7742	74.5078	264.5664	4.2271	-0.8382	0.0004	0.5454	0.14401	0.18929	-0.32581	0.56240
408.7636	74.2361	265.9586	5.0525	-0.7939	0.0006	0.6080	0.01543	0.07690	-0.37171	0.44167
410.0461	73.9280	267.4779	6.1944	-0.7374	0.0005	0.6755	-0.13613	-0.05833	-0.44099	0.29665
411.7117	73.5744	269.1479	7.7602	-0.6824	0.0006	0.7310	-0.25902	-0.17114	-0.45972	0.16658
413.8750	73.1674	270.9889	9.9243	-0.6186	0.0005	0.7857	-0.38397	-0.29063	-0.49399	0.02470
416.6918	72.7002	273.0153	12.9505	-0.5549	0.0005	0.8319	-0.47853	-0.38969	-0.49537	-0.10428
420.3575	72.1640	275.2425	17.2134	-0.4897	0.0005	0.8719	-0.54902	-0.47743	-0.49612	-0.22739
425.1235	71.5773	277.6723	23.1878	-0.4252	0.0008	0.9051	-0.58670	-0.54566	-0.47865	-0.33665
431.2774	70.9589	280.2604	31.2687	-0.3570	0.0005	0.9341	-0.59798	-0.59793	-0.46810	-0.43402
439.0988	70.3080	282.9239	41.9726	-0.2939	0.0000	0.9558	-0.56920	-0.59332	-0.44093	-0.49354
448.8252	69.6710	285.5432	55.5596	-0.2318	0.0000	0.9728	-0.52547	-0.53064	-0.42848	-0.50496
460.5820	69.1516	287.9423	71.4372	-0.1727	0.0008	0.9850	-0.48439	-0.44720	-0.41735	-0.47153
474.2862	68.9272	289.8862	87.6157	-0.1119	0.0009	0.9937	-0.46276	-0.40153	-0.42102	-0.42925
489.5612	69.1986	291.1378	100.4862	-0.0537	0.0003	0.9986	-0.44601	-0.38608	-0.42084	-0.39911
505.7082	70.0582	291.5511	106.2534	0.0018	0.0000	1.0000	-0.42797	-0.37529	-0.41931	-0.37963
521.8406	71.4711	291.0663	103.1823	0.0590	0.0003	0.9983	-0.40886	-0.35668	-0.43303	-0.35806
535.3232	73.0952	289.9622	70.3341	0.1139	-0.0008	0.9935	-0.37832	-0.31960	-0.43136	-0.31611
405.3665	77.8479	257.3896	1.4914	-0.9990	0.0003	0.0443	0.97796	0.94165	0.33064	1.18667
405.4247	77.7536	258.1996	1.6490	-0.9953	0.0003	0.0968	0.84443	0.82820	0.18236	1.08511
405.5401	77.6502	259.0754	1.8340	-0.9868	0.0003	0.1617	0.80076	0.78475	0.15823	1.06637
405.7383	77.5373	260.0207	2.0561	-0.9696	0.0004	0.2446	0.65976	0.66146	0.03520	0.96003
406.0424	77.4141	261.0391	2.3242	-0.9463	0.0003	0.3233	0.55356	0.56493	-0.06112	0.89765

406.4647	77.2786	262.1399	2.6583	-0.9212	0.0004	0.3891	0.43123	0.45670	-0.16386	0.80769
407.0364	77.1298	263.3269	3.0691	-0.8810	0.0004	0.4730	0.28006	0.32127	-0.26869	0.69346
407.8042	76.9664	264.6108	3.6346	-0.8368	0.0003	0.5475	0.14240	0.19825	-0.33323	0.57187
408.8045	76.7848	266.0098	4.3342	-0.7920	0.0005	0.6106	0.01115	0.08152	-0.38264	0.44699
410.1005	76.5813	267.5354	5.2982	-0.7354	0.0004	0.6777	-0.14218	-0.05744	-0.45335	0.30068
411.7821	76.3510	269.2114	6.6152	-0.6802	0.0005	0.7330	-0.26804	-0.17445	-0.47716	0.16735
413.9643	76.0904	271.0574	8.4244	-0.6164	0.0004	0.7874	-0.39540	-0.29792	-0.51391	0.02073
416.8026	75.7976	273.0876	10.9375	-0.5527	0.0003	0.8334	-0.49176	-0.40148	-0.51444	-0.11263
420.4928	75.4704	275.3166	14.4492	-0.4876	0.0004	0.8731	-0.56281	-0.49179	-0.51133	-0.23890
425.2838	75.1282	277.7445	19.3067	-0.4230	0.0007	0.9061	-0.60020	-0.56167	-0.49211	-0.35114
431.4602	74.7919	280.3284	25.7950	-0.3557	0.0004	0.9346	-0.60853	-0.61333	-0.47880	-0.44910
439.3020	74.4697	282.9863	34.2474	-0.2925	-0.0001	0.9563	-0.57838	-0.60703	-0.45266	-0.50952
449.0454	74.2049	285.5954	44.7195	-0.2304	0.0000	0.9731	-0.53257	-0.53923	-0.43935	-0.51832
460.8095	74.0797	287.9783	56.5690	-0.1712	0.0007	0.9852	-0.48956	-0.45087	-0.42711	-0.47967
474.5019	74.2216	289.9056	68.0679	-0.1112	0.0009	0.9938	-0.46598	-0.40293	-0.42697	-0.43232
489.7407	74.7611	291.1457	76.4482	-0.0533	0.0003	0.9986	-0.44940	-0.38812	-0.42455	-0.40106
505.8351	75.7367	291.5508	79.0980	0.0023	0.0000	1.0000	-0.43048	-0.37653	-0.41959	-0.38023
521.9149	77.0872	291.0605	75.1858	0.0594	0.0003	0.9982	-0.40766	-0.35438	-0.43011	-0.35486
535.0737	78.4790	289.9954	47.6698	0.1127	-0.0009	0.9936	-0.36561	-0.30819	-0.41467	-0.30272
405.3670	79.6087	257.3910	1.2578	-0.9990	0.0003	0.0445	0.93644	0.92789	0.35374	1.19443
405.4257	79.5455	258.2049	1.3899	-0.9953	0.0003	0.0972	0.80845	0.81792	0.20058	1.08895
405.5424	79.4769	259.0852	1.5446	-0.9867	0.0003	0.1625	0.76091	0.77246	0.18659	1.06317
405.7427	79.4029	260.0354	1.7302	-0.9693	0.0003	0.2459	0.62479	0.65157	0.04915	0.96085
406.0499	79.3234	261.0592	1.9535	-0.9459	0.0003	0.3246	0.51923	0.55411	-0.05927	0.90293
406.4765	79.2369	262.1658	2.2315	-0.9205	0.0003	0.3907	0.40048	0.44681	-0.16468	0.81196
407.0543	79.1434	263.3587	2.5722	-0.8798	0.0003	0.4753	0.25379	0.31191	-0.27223	0.69047
407.8296	79.0427	264.6483	3.0399	-0.8357	0.0003	0.5492	0.12142	0.19011	-0.33897	0.56628
408.8390	78.9328	266.0529	3.6174	-0.7903	0.0004	0.6127	-0.00723	0.07265	-0.39163	0.44132
410.1462	78.8123	267.5837	4.4103	-0.7337	0.0003	0.6795	-0.15686	-0.06604	-0.46275	0.29616
411.8411	78.6791	269.2645	5.4896	-0.6784	0.0004	0.7347	-0.28101	-0.18384	-0.49103	0.16156
414.0389	78.5329	271.1147	6.9640	-0.6146	0.0003	0.7888	-0.40705	-0.30814	-0.53269	0.01298
416.8948	78.3749	273.1477	8.9994	-0.5509	0.0002	0.8346	-0.50267	-0.41303	-0.53534	-0.12245
420.6047	78.2074	275.3780	11.8213	-0.4859	0.0003	0.8740	-0.57254	-0.50344	-0.52892	-0.24959
425.4156	78.0483	277.8038	15.6761	-0.4212	0.0006	0.9070	-0.60905	-0.57328	-0.50674	-0.36265
431.6092	77.9179	280.3838	20.7600	-0.3546	0.0003	0.9350	-0.61513	-0.62336	-0.49029	-0.45990
439.4661	77.8289	283.0367	27.2684	-0.2914	-0.0001	0.9566	-0.58398	-0.61533	-0.46416	-0.51972
449.2209	77.8176	285.6371	35.1255	-0.2293	-0.0001	0.9734	-0.53691	-0.54544	-0.44881	-0.52655
460.9881	77.9455	288.0066	43.6964	-0.1700	0.0006	0.9854	-0.49281	-0.45504	-0.43397	-0.48534
474.6682	78.2986	289.9207	51.5300	-0.1107	0.0009	0.9939	-0.46774	-0.40519	-0.43008	-0.43512
489.8763	78.9554	291.1517	56.5545	-0.0529	0.0003	0.9986	-0.45059	-0.38983	-0.42601	-0.40268
505.9288	79.9211	291.5505	57.0556	0.0026	0.0000	1.0000	-0.43003	-0.37667	-0.41887	-0.38005
521.9684	81.1277	291.0562	52.8183	0.0597	0.0002	0.9982	-0.40329	-0.35140	-0.42711	-0.35144
534.8994	82.2757	290.0185	31.4507	0.1117	-0.0009	0.9937	-0.35241	-0.29652	-0.40904	-0.28971
405.3674	81.0713	257.3921	1.0356	-0.9990	0.0003	0.0445	0.83282	0.86925	0.37814	1.18451
405.4265	81.0328	258.2093	1.1438	-0.9952	0.0003	0.0976	0.73135	0.77433	0.21981	1.07991
405.5442	80.9918	259.0933	1.2703	-0.9866	0.0003	0.1632	0.68535	0.73007	0.20520	1.05357
405.7463	80.9485	260.0476	1.4217	-0.9690	0.0003	0.2471	0.56818	0.62024	0.05408	0.95538
406.0562	80.9033	261.0758	1.6037	-0.9455	0.0003	0.3256	0.46950	0.52585	-0.05900	0.89622
406.4862	80.8555	262.1872	1.8300	-0.9199	0.0003	0.3921	0.35792	0.42163	-0.16138	0.80140
407.0690	80.8055	263.3849	2.1064	-0.8788	0.0003	0.4772	0.22009	0.29088	-0.27125	0.67593
407.8505	80.7539	264.6791	2.4852	-0.8347	0.0003	0.5506	0.09598	0.17269	-0.34140	0.55286
408.8674	80.6999	266.0883	2.9519	-0.7890	0.0003	0.6144	-0.02808	0.05645	-0.39974	0.42920
410.1837	80.6437	267.6234	3.5908	-0.7324	0.0002	0.6809	-0.17141	-0.07939	-0.47309	0.28508
411.8895	80.5855	269.3081	4.4578	-0.6769	0.0003	0.7361	-0.29264	-0.19616	-0.50256	0.14983
414.0997	80.5267	271.1614	5.6362	-0.6131	0.0002	0.7900	-0.41666	-0.32009	-0.54359	0.00133
416.9698	80.4708	273.1966	7.2540	-0.5494	0.0002	0.8356	-0.51112	-0.42479	-0.54514	-0.13422
420.6953	80.4225	275.4277	9.4812	-0.4844	0.0002	0.8748	-0.57916	-0.51401	-0.53636	-0.26069
425.5215	80.3973	277.8516	12.4895	-0.4197	0.0005	0.9077	-0.61373	-0.58217	-0.51337	-0.37274
431.7281	80.4131	280.4280	16.4094	-0.3537	0.0003	0.9354	-0.61720	-0.62954	-0.49544	-0.46788
439.5957	80.4835	283.0766	21.3434	-0.2905	-0.0002	0.9569	-0.58476	-0.61909	-0.46916	-0.52588
449.3579	80.6369	285.6697	27.1469	-0.2285	-0.0002	0.9736	-0.53659	-0.54683	-0.45227	-0.53033
461.1253	80.9150	288.0284	33.2349	-0.1692	0.0006	0.9856	-0.49176	-0.45477	-0.43614	-0.48683
474.7936	81.3706	289.9320	38.4200	-0.1103	0.0008	0.9939	-0.46594	-0.40423	-0.43070	-0.43486
489.9763	82.0444	291.1562	41.1738	-0.0527	0.0003	0.9986	-0.44875	-0.38907	-0.42639	-0.40215
505.9963	82.9234	291.5503	40.4106	0.0028	0.0000	1.0000	-0.42761	-0.37535	-0.41789	-0.37879
522.0060	83.9451	291.0533	36.2775	0.0600	0.0002	0.9982	-0.39791	-0.34729	-0.42287	-0.34742
534.7821	84.8592	290.0341	20.4351	0.1110	-0.0009	0.9938	-0.33677	-0.28256	-0.39739	-0.27530
405.3678	82.2607	257.3931	0.8359	-0.9990	0.0003	0.0446	0.74956	0.81108	0.39910	1.16997
405.4272	82.2415	258.2129	0.9228	-0.9952	0.0003	0.0978	0.68514	0.73549	0.23365	1.06961
405.5457	82.2219	259.0999	1.0244	-0.9865	0.0003	0.1638	0.64390	0.69482	0.21016	1.04782
405.7493	82.2026	260.0575	1.1457	-0.9688	0.0003	0.2480	0.54891	0.59711	0.05234	0.95023
406.0612	82.1841	261.0893	1.2914	-0.9452	0.0003	0.3264	0.45802	0.50727	-0.05852	0.88513
406.4940	82.1663	262.2046	1.4723	-0.9195	0.0003	0.3932	0.35146	0.40560	-0.15786	0.78685
407.0809	82.1500	263.4060	1.6927	-0.8780	0.0002	0.4787	0.21994	0.27940	-0.26957	0.66257
407.8674	82.1362	264.7041	1.9943	-0.8340	0.0002	0.5518	0.09686	0.16463	-0.34006	0.54338
408.8903	82.1252	266.1169	2.3653	-0.7879	0.0003	0.6157	-0.02852	0.04903	-0.40137	0.42146
410.2139	82.1183	267.6553	2.8718	-0.7313	0.0002	0.6821	-0.17360	-0.08663	-0.47850	0.27804
411.9283	82.1171	269.3430	3.5574	-0.6757	0.0003	0.7372	-0.29604	-0.20392	-0.51030	0.14272
414.1485	82.1243	271.1989	4.4852	-0.6119	0.0001	0.7909	-0.42083	-0.32811	-0.54983	-0.00544
417.0297	82.1447	273.2357	5.7532	-0.5482	0.0001	0.8364	-0.51477	-0.43220	-0.54817	-0.14101
420.7673	82.1842	275.4672	7.4878	-0.4833	0.0001	0.8754	-0.58178	-0.52028	-0.53678	-0.26690
425.6053	82.2556	277.8894	9.8082	-0.4186	0.0004	0.9082	-0.61498	-0.58702	-0.51382	-0.37809
431.8216	82.3735	280.4628	12.7992	-0.3530	0.0002	0.9356	-0.61695	-0.63273	-0.49608	-0.47185
439.6967	82.5505	283.1076	16.5052	-0.2899	-0.0002	0.9571	-0.58382	-0.62097	-0.47064	-0.52880
449.4633	82.8066	285.6949	20.7574	-0.2278	-0.0002	0.9737	-0.53503	-0.54767	-0.45347	-0.53208
461.2294	83.1665	288.0450	25.0437	-0.1685	0.0005	0.9857	-0.48998	-0.45488	-0.43718	-0.48765
474.8871	83.6563	289.9405	28.4123	-0.1100	0.0008	0.9939	-0.46408	-0.40387	-0.43116	-0.43486
490.0492	84.2898	291.1595	29.7433	-0.0525	0.0003	0.9986	-0.44719	-0.38866	-0.42669	-0.40193
506.0442	85.0456	291.5502	28.3681	0.0030	0.0000	1.0000	-0.42597	-0.37449	-0.41725	-0.37802
522.0318	85.8731	291.0513	24.6134	0.0601	0.0002	0.9982	-0.39453	-0.34491	-0.41915	-0.34509
534.7053	86.5766	290.0443	13.1733	0.1105	-0.0009	0.9939	-0.33310	-0.27869	-0.40248	-0.27124
405.3680	83.2113	257.3938	0.6640	-0.9990	0.0002	0.0447	0.74225	0.79531	0.41320	1.16224
405.4278	83.2069	258.2157	0.7328	-0.9952	0.0002	0.0980	0.70442	0.72942	0.24231	1.06481
405.5468	83.2039	259.1052	0.8131	-0.9864	0.0003	0.1642	0.66308	0.69037	0.20472	1.04812
405.7516	83.2030	260.0654	0.9089	-0.9686	0.0003	0.2487	0.57344	0.59700	0.04380	0.94899
406.0652	83.2051	261.1000	1.0238	-0.9450	0.0003	0.3270	0.47805	0.50774	-0.06085	0.87737
406.5003	83.2103	262.2184	1.1665	-0.9191	0.0003	0.3940	0.36657	0.40530	-0.15700	0.77587
407.0903	83.2198	263.4229	1.3398	-0.8773	0.0002	0.4799	0.22578	0.27882	-0.27037	0.65363
407.8807	83.2350	264.7239	1.5767	-0.8334	0.0002	0.5527	0.09598	0.16127	-0.33988	0.53783
408.9084	83.2568	266.1395	1.8677	-0.7871	0.0003	0.6168	-0.03372	0.04287	-0.40233	0.41624
410.2379	83.2872	267.6806	2.2643	-0.7304	0.0002	0.6830	-0.18169	-0.09474	-0.48273	0.27213
411.9590	83.3290	269.3707	2.7997	-0.6748	0.0002	0.7380	-0.30442	-0.21255	-0.51847	0.13570
414.1870	83.3857	271.2285	3.5219	-0.6110	0.0001	0.7916	-0.42877	-0.33673	-0.55893	-0.01332
417.0769	83.4627	273.2664	4.5051	-0.5472	0.0000	0.8370	-0.52073	-0.43961	-0.55469	-0.14871
420.8238	83.5665	275.4983	5.8431	-0.4824	0.0001	0.8759	-0.58520	-0.52598	-0.53954	-0.27368
425.6708	83.7071	277.9190	7.6182	-0.4177	0.0003	0.9086	-0.61596	-0.59075	-0.51449	-0.38350

431.8942	83.8956	280.4897	9.8846	-0.3525	0.0002	0.9358	-0.61572	-0.63418	-0.49572	-0.47530
439.7744	84.1431	283.1315	12.6537	-0.2893	-0.0003	0.9572	-0.58158	-0.62035	-0.47060	-0.53034
449.5437	84.4612	285.7140	15.7588	-0.2273	-0.0002	0.9738	-0.53251	-0.54587	-0.45379	-0.53198
461.3077	84.8603	288.0574	18.7684	-0.1680	0.0005	0.9858	-0.48781	-0.45307	-0.43780	-0.48675
474.9562	85.3456	289.9468	20.9315	-0.1097	0.0008	0.9940	-0.46236	-0.40264	-0.43151	-0.43384
490.1019	85.9121	291.1619	21.4295	-0.0524	0.0002	0.9986	-0.44596	-0.38792	-0.42680	-0.40117
506.0779	86.5355	291.5502	19.8611	0.0031	0.0000	1.0000	-0.42486	-0.37375	-0.41632	-0.37717
522.0494	87.1796	291.0500	16.6147	0.0602	0.0002	0.9982	-0.39074	-0.34188	-0.41364	-0.34195
534.6558	87.7018	290.0508	8.4641	0.1101	-0.0009	0.9939	-0.32369	-0.26964	-0.39696	-0.26182

plate top upper

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
367.7747	81.6282	258.1519	10.6251	-0.3599	0.9330	0.0066	0.26706	0.19875	-0.16975	0.06042
372.7270	83.1696	258.1020	12.8551	-0.2462	0.9690	0.0199	-0.19891	-0.20210	-0.44141	-0.29731
378.7510	84.3787	258.0790	14.1873	-0.1521	0.9881	0.0232	-0.39561	-0.46843	-0.49660	-0.52222
385.2077	85.1825	258.0709	14.1207	-0.0948	0.9954	0.0099	-0.40519	-0.56264	-0.44681	-0.62192
391.2388	85.6149	258.0555	11.9824	-0.0443	0.9990	0.0019	-0.37078	-0.60985	-0.42736	-0.68962
396.1743	85.8128	258.0101	8.8096	-0.0345	0.9994	-0.0006	-0.26902	-0.47687	-0.34375	-0.64037
399.8291	85.9396	257.9290	5.6277	-0.0349	0.9994	0.0000	-0.20384	-0.27540	-0.30556	-0.44987
402.3386	86.0272	257.8508	3.3810	-0.0349	0.9994	0.0000	-0.19350	-0.23657	-0.29670	-0.30045
403.9727	86.0843	257.8497	2.2433	-0.0349	0.9994	0.0000	-0.18003	-0.21433	-0.28424	-0.27731
404.6738	86.1088	258.2402	1.1049	-0.0349	0.9994	0.0000	-0.17526	-0.20731	-0.28070	-0.26261
404.8010	86.1132	259.0110	1.0756	-0.0349	0.9994	0.0000	-0.17226	-0.20372	-0.27436	-0.26161
404.9394	86.1180	259.8841	1.2095	-0.0349	0.9994	0.0000	-0.16860	-0.19847	-0.27017	-0.25597
405.1398	86.1250	260.8598	1.4635	-0.0349	0.9994	0.0000	-0.16533	-0.19321	-0.26484	-0.25019
405.4429	86.1356	261.9289	1.7939	-0.0350	0.9994	0.0000	-0.16176	-0.18745	-0.25964	-0.24315
405.8750	86.1507	263.0941	2.1898	-0.0349	0.9994	0.0000	-0.15791	-0.18110	-0.25396	-0.23468
406.4730	86.1716	264.3530	2.6728	-0.0349	0.9994	0.0000	-0.15373	-0.17418	-0.24798	-0.22475
407.2799	86.1997	265.7118	3.2742	-0.0349	0.9994	0.0000	-0.14927	-0.16687	-0.24177	-0.21354
408.3344	86.2366	267.1868	3.9875	-0.0349	0.9994	0.0000	-0.14453	-0.15932	-0.23510	-0.20145
409.6998	86.2843	268.7878	4.9205	-0.0349	0.9994	0.0000	-0.13970	-0.15189	-0.22836	-0.18902
411.4638	86.3459	270.5358	6.1241	-0.0349	0.9994	0.0000	-0.13465	-0.14465	-0.22103	-0.17666
413.7399	86.4253	272.4474	7.6964	-0.0349	0.9994	0.0000	-0.12954	-0.13787	-0.21344	-0.16505
416.6789	86.5280	274.5328	9.7457	-0.0349	0.9994	0.0000	-0.12434	-0.13151	-0.20509	-0.15465
420.4716	86.6604	276.8019	12.4026	-0.0349	0.9994	0.0000	-0.11914	-0.12542	-0.19602	-0.14575
425.3545	86.8310	279.2470	15.7571	-0.0349	0.9994	0.0000	-0.11396	-0.11893	-0.18597	-0.13791
431.5969	87.0489	281.8278	19.8315	-0.0349	0.9994	0.0000	-0.10907	-0.11157	-0.17537	-0.13042
439.4756	87.3241	284.4670	24.5388	-0.0349	0.9994	0.0000	-0.10473	-0.10301	-0.16457	-0.12235
449.2227	87.6644	287.0402	29.6387	-0.0349	0.9994	0.0000	-0.10162	-0.09417	-0.15524	-0.11375
460.9445	88.0738	289.3765	34.7690	-0.0349	0.9994	0.0000	-0.09990	-0.08594	-0.14859	-0.10482
474.5340	88.5483	291.2712	39.4357	-0.0349	0.9994	0.0000	-0.10113	-0.08047	-0.14782	-0.09707
489.6136	89.0755	292.5131	43.1401	-0.0350	0.9994	0.0000	-0.10463	-0.07740	-0.15048	-0.08963
505.5244	89.6311	292.9530	45.2830	-0.0348	0.9994	0.0001	-0.11680	-0.08299	-0.16826	-0.08979
521.3661	90.1837	292.5079	44.3097	-0.0349	0.9994	0.0000	-0.13725	-0.09620	-0.19301	-0.09384
533.6139	90.6114	291.4427	22.5563	-0.0349	0.9994	0.0000	-0.16634	-0.12059	-0.17454	-0.11705
367.7035	81.5846	260.4351	9.9299	-0.3529	0.9356	0.0069	0.28197	0.20875	-0.15328	0.06368
372.4400	83.0503	260.2607	11.5424	-0.2482	0.9685	0.0215	-0.17865	-0.18244	-0.42996	-0.28123
378.1596	84.2337	260.2116	12.8851	-0.1610	0.9866	0.0243	-0.38213	-0.44916	-0.48535	-0.50219
384.3895	85.0766	260.2395	13.9169	-0.1080	0.9941	0.0107	-0.40310	-0.54836	-0.44071	-0.60531
390.2843	85.5643	260.2706	12.4075	-0.0523	0.9986	0.0020	-0.38864	-0.62404	-0.43697	-0.69090
395.0775	85.7763	260.2243	9.7033	-0.0336	0.9994	-0.0003	-0.29732	-0.53454	-0.36178	-0.68419
398.6238	85.8975	260.0662	6.7099	-0.0349	0.9994	0.0000	-0.22172	-0.33458	-0.31222	-0.54344
401.0654	85.9827	259.8939	4.4299	-0.0349	0.9994	0.0000	-0.20457	-0.26111	-0.30179	-0.38066
402.6655	86.0386	259.8759	3.0613	-0.0349	0.9994	0.0000	-0.19083	-0.23429	-0.28743	-0.30916
403.4525	86.0661	260.2327	1.5001	-0.0348	0.9994	0.0000	-0.18304	-0.22159	-0.28032	-0.29419
403.7317	86.0759	260.9240	1.3370	-0.0349	0.9994	0.0000	-0.18000	-0.21617	-0.27497	-0.28652
403.9612	86.0839	261.7830	1.3763	-0.0348	0.9994	0.0000	-0.17529	-0.20900	-0.26859	-0.27700
404.2225	86.0930	262.8028	1.5389	-0.0348	0.9994	0.0000	-0.17104	-0.20197	-0.26238	-0.26821
404.5770	86.1054	263.9570	1.7961	-0.0349	0.9994	0.0000	-0.16640	-0.19443	-0.25607	-0.25816
405.0680	86.1225	265.2320	2.1554	-0.0348	0.9994	0.0000	-0.16148	-0.18630	-0.24953	-0.24671
405.7359	86.1458	266.6147	2.6357	-0.0349	0.9994	0.0000	-0.15631	-0.17778	-0.24300	-0.23394
406.6206	86.1767	268.1024	3.2641	-0.0349	0.9994	0.0000	-0.15098	-0.16913	-0.23634	-0.22018
407.7651	86.2167	269.7048	4.0598	-0.0349	0.9994	0.0000	-0.14559	-0.16067	-0.22958	-0.20607
409.2299	86.2679	271.4279	5.1092	-0.0349	0.9994	0.0000	-0.14021	-0.15267	-0.22280	-0.19215
411.0973	86.3331	273.2847	6.4681	-0.0349	0.9994	0.0000	-0.13484	-0.14527	-0.21564	-0.17898
413.4736	86.4161	275.2846	8.2306	-0.0349	0.9994	0.0000	-0.12956	-0.13861	-0.20829	-0.16715
416.4954	86.5216	277.4303	10.4761	-0.0349	0.9994	0.0000	-0.12433	-0.13252	-0.20033	-0.15691
420.3370	86.6557	279.7218	13.2933	-0.0349	0.9994	0.0000	-0.11918	-0.12660	-0.19171	-0.14813
425.2158	86.8261	282.1451	16.6973	-0.0349	0.9994	0.0000	-0.11413	-0.12014	-0.18217	-0.14012
431.3886	87.0417	284.6604	20.5965	-0.0349	0.9994	0.0000	-0.10940	-0.11272	-0.17218	-0.13218
439.1375	87.3123	287.2012	24.7512	-0.0349	0.9994	0.0000	-0.10510	-0.10406	-0.16201	-0.12351
448.7143	87.6467	289.6671	28.7766	-0.0349	0.9994	0.0000	-0.10187	-0.09496	-0.15310	-0.11411
460.2395	88.0492	291.9137	32.2809	-0.0349	0.9994	0.0000	-0.09990	-0.08611	-0.14671	-0.10335
473.6124	88.5162	293.7584	34.9959	-0.0349	0.9994	0.0000	-0.10090	-0.08004	-0.14628	-0.09359
488.4673	89.0354	295.0115	36.8699	-0.0349	0.9994	0.0000	-0.10405	-0.07648	-0.14930	-0.08504
504.1526	89.5831	295.5350	37.7666	-0.0349	0.9994	0.0000	-0.11675	-0.08277	-0.16729	-0.08643
519.6611	90.1243	295.2125	35.9847	-0.0349	0.9994	0.0000	-0.13633	-0.09557	-0.19613	-0.09088
531.4707	90.5366	294.1148	18.4046	-0.0349	0.9994	0.0000	-0.17601	-0.12975	-0.19696	-0.12297
367.7996	81.6354	262.6673	9.4573	-0.3404	0.9400	-0.0211	0.29004	0.20925	-0.14641	0.04791
372.3199	82.9897	262.3447	10.8442	-0.2449	0.9695	0.0060	-0.16645	-0.17316	-0.41675	-0.27504
377.7306	84.1168	262.3086	12.3221	-0.1669	0.9858	0.0191	-0.36598	-0.43451	-0.47570	-0.48552
383.7225	84.9765	262.4728	14.5597	-0.1195	0.9928	0.0112	-0.39130	-0.53206	-0.43370	-0.58662
389.4694	85.5145	262.6961	13.6795	-0.0623	0.9981	0.0011	-0.39220	-0.62615	-0.43789	-0.68214
394.1119	85.7445	262.8361	11.5959	-0.0328	0.9995	0.0001	-0.31101	-0.56273	-0.37199	-0.69805
397.5500	85.8601	262.8232	8.8647	-0.0348	0.9994	0.0000	-0.22948	-0.36207	-0.31537	-0.58080
399.9296	85.9431	262.7411	6.3061	-0.0349	0.9994	0.0000	-0.20942	-0.27170	-0.30461	-0.42590
401.5031	85.9981	262.7492	4.2982	-0.0349	0.9994	0.0000	-0.19661	-0.24341	-0.29090	-0.33350
402.3684	86.0283	263.0492	2.1336	-0.0349	0.9994	0.0000	-0.18836	-0.22885	-0.28347	-0.31033
402.8116	86.0437	263.6747	1.8572	-0.0349	0.9994	0.0000	-0.18366	-0.22096	-0.27757	-0.29907
403.1992	86.0573	264.5318	1.8422	-0.0349	0.9994	0.0000	-0.17774	-0.21160	-0.27045	-0.28544
403.6150	86.0718	265.6063	1.9881	-0.0348	0.9994	0.0000	-0.17224	-0.20244	-0.26398	-0.27259
404.1214	86.0895	266.8612	2.2584	-0.0350	0.9994	0.0000	-0.16648	-0.19311	-0.25685	-0.25905
404.7650	86.1120	268.2632	2.6578	-0.0349	0.9994	0.0000	-0.16068	-0.18371	-0.24982	-0.24470
405.5857	86.1406	269.7840	3.1987	-0.0348	0.9994	0.0000	-0.15486	-0.17446	-0.24264	-0.22985
406.6225	86.1768	271.4081	3.9034	-0.0350	0.9994	0.0000	-0.14903	-0.16555	-0.23531	-0.21492
407.9190	86.2221	273.1324	4.7924	-0.0349	0.9994	0.0000	-0.14347	-0.15742	-0.22811	-0.20071
409.5310	86.2784	274.9543	5.9245	-0.0349	0.9994	0.0000	-0.13802	-0.15006	-0.22075	-0.18752
411.5301	86.3482	276.8753	7.3408	-0.0349	0.9994	0.0000	-0.13282	-0.14357	-0.21324	-0.17581
414.0066	86.4347	278.8939	9.0995	-0.0349	0.9994	0.0000	-0.12789	-0.13791	-0.20558	-0.16583
417.0742	86.5418	281.0041	11.2486	-0.0349	0.9994	0.0000	-0.12318	-0.13267	-0.19746	-0.15735
420.8813	86.6748	283.1982	13.8526	-0.0349	0.9994	0.0000	-0.11872	-0.12737	-0.18888	-0.14989
425.6238	86.8403	285.4614	16.9382	-0.0349	0.9994	0.0000	-0.11448	-0.12132	-0.17954	-0.14259
431.5564	87.0476	287.7634	20.4651	-0.0349	0.9994	0.0000	-0.11062	-0.11431	-0.16987	-0.13503
438.9911	87.3072	290.0595	24.2256	-0.0349	0.9994	0.0000	-0.10716	-0.10617	-0.16005	-0.12676
448.2242	87.6296	292.2835	27.7581	-0.0349	0.9994	0.0000	-0.10458	-0.09782	-0.15140	-0.11856
459.4001	88.0199	294.3237	30.5617	-0.0349	0.9994	0.0000	-0.10307	-0.09004	-0.14500	-0.11084
472.4148	88.4744	296.0232	32.4181	-0.0349	0.9994	0.0000	-0.10421	-0.08459	-0.14353	-0.10369
486.8970	88.9804	297.2170	33.4576	-0.0349	0.9994	0.0000	-0.10713	-0.08087	-0.14423	-0.09548
502.1929	89.5146	297.7870	33.7843	-0.0349	0.9994	0.0001	-0.11877	-0.08575	-0.15703	-0.09467
517.2459	90.0399	297.6051	31.9214	-0.0349	0.9994	0.0000	-0.13704	-0.09684	-0.18081	-0.09602
528.9299	90.4479	296.6207	17.8011	-0.0349	0.9994	0.0000	-0.17053	-0.12555	-0.14282	-0.12059
368.1964	81.8587	264.8875	9.4223	-0.3179	0.9467	-0.0525	0.26663	0.18853	-0.16284	0.02197
372.5406	83.0607	264.4679	10.9176	-0.2318	0.9725	-0.0219	-0.17488	-0.18303	-0.41922	-0.28359

377.6770	84.0897	264.5025	12.4948	-0.1648	0.9863	-0.0022	-0.36258	-0.43111	-0.47357	-0.47970
383.4584	84.9291	264.8999	15.8195	-0.1250	0.9922	0.0020	-0.38793	-0.52412	-0.43282	-0.57635
389.0767	85.4883	265.4726	15.3180	-0.0677	0.9977	0.0000	-0.39890	-0.63107	-0.44229	-0.67835
393.5693	85.7255	266.0119	13.6903	-0.0331	0.9995	0.0006	-0.32330	-0.58833	-0.37979	-0.71182
396.8929	85.8374	266.3977	11.1838	-0.0346	0.9994	0.0000	-0.23559	-0.38394	-0.31734	-0.62880
399.2100	85.9179	266.6228	8.3745	-0.0349	0.9994	0.0000	-0.21176	-0.27101	-0.30442	-0.47794
400.7655	85.9722	266.7545	5.7523	-0.0349	0.9994	0.0000	-0.19895	-0.24371	-0.28981	-0.35483
401.6912	86.0046	267.0051	2.9751	-0.0350	0.9994	0.0000	-0.19011	-0.22794	-0.28204	-0.31704
402.2691	86.0248	267.5516	2.6455	-0.0349	0.9994	0.0000	-0.18432	-0.21885	-0.27487	-0.30375
402.8155	86.0439	268.3894	2.6150	-0.0349	0.9994	0.0000	-0.17752	-0.20863	-0.26689	-0.28674
403.4021	86.0644	269.4962	2.7822	-0.0348	0.9994	0.0000	-0.17106	-0.19843	-0.25931	-0.27027
404.0843	86.0882	270.8234	3.1036	-0.0350	0.9994	0.0000	-0.16446	-0.18831	-0.25106	-0.25413
404.9052	86.1169	272.3173	3.5733	-0.0349	0.9994	0.0000	-0.15806	-0.17858	-0.24318	-0.23806
405.9016	86.1516	273.9305	4.1890	-0.0348	0.9994	0.0000	-0.15182	-0.16946	-0.23519	-0.22253
407.1088	86.1938	275.6314	4.9610	-0.0349	0.9994	0.0000	-0.14584	-0.16116	-0.22742	-0.20806
408.5655	86.2447	277.4026	5.8922	-0.0349	0.9994	0.0000	-0.14033	-0.15400	-0.21995	-0.19522
410.3173	86.3059	279.2313	7.0110	-0.0349	0.9994	0.0000	-0.13520	-0.14785	-0.21259	-0.18408
412.4210	86.3793	281.1097	8.3359	-0.0349	0.9994	0.0000	-0.13043	-0.14257	-0.20530	-0.17461
414.9470	86.4675	283.0301	9.8982	-0.0349	0.9994	0.0000	-0.12609	-0.13791	-0.19805	-0.16662
417.9874	86.5737	284.9848	11.7448	-0.0349	0.9994	0.0000	-0.12204	-0.13330	-0.19056	-0.15947
421.6710	86.7024	286.9684	13.9653	-0.0349	0.9994	0.0000	-0.11831	-0.12830	-0.18283	-0.15254
426.1845	86.8599	288.9742	16.6516	-0.0349	0.9994	0.0000	-0.11474	-0.12240	-0.17442	-0.14520
431.7948	87.0559	290.9840	19.8527	-0.0349	0.9994	0.0000	-0.11139	-0.11547	-0.16554	-0.13712
438.8509	87.3023	292.9726	23.4155	-0.0349	0.9994	0.0000	-0.10827	-0.10730	-0.15621	-0.12815
447.6925	87.6110	294.9018	26.7970	-0.0349	0.9994	0.0000	-0.10582	-0.09828	-0.14761	-0.11768
458.4803	87.9877	296.6883	29.3524	-0.0349	0.9994	0.0000	-0.10448	-0.08947	-0.14154	-0.10578
471.0982	88.4284	298.1993	30.8372	-0.0349	0.9994	0.0000	-0.10592	-0.08374	-0.14130	-0.09628
485.1573	88.9196	299.2946	31.4418	-0.0349	0.9994	0.0000	-0.10917	-0.08050	-0.14393	-0.08859
499.9977	89.4379	299.8802	31.4083	-0.0349	0.9994	0.0001	-0.12172	-0.08706	-0.15837	-0.09088
514.5651	89.9464	299.8416	29.6958	-0.0349	0.9994	0.0000	-0.13918	-0.09807	-0.18902	-0.09370
526.2360	90.3538	299.0334	18.6625	-0.0349	0.9994	0.0000	-0.17740	-0.13104	-0.15751	-0.12138
369.1620	82.2904	268.4739	20.2904	-0.2942	0.9554	-0.0252	0.21508	0.13185	-0.24230	-0.05891
373.2981	83.3343	267.9144	22.4741	-0.2099	0.9771	-0.0339	-0.20451	-0.21855	-0.40382	-0.31172
378.1325	84.2144	267.9601	23.5333	-0.1507	0.9883	-0.0220	-0.35123	-0.43502	-0.45731	-0.48074
383.7123	84.9717	268.5762	28.9420	-0.1187	0.9929	-0.0061	-0.37084	-0.51456	-0.42118	-0.56049
389.2190	85.4995	269.5477	25.0721	-0.0651	0.9979	-0.0008	-0.38906	-0.62693	-0.43658	-0.66856
393.5425	85.7234	270.5155	20.3713	-0.0338	0.9994	0.0001	-0.31410	-0.59131	-0.36845	-0.70549
396.7331	85.8320	271.2746	15.2429	-0.0344	0.9994	0.0000	-0.22780	-0.37399	-0.31070	-0.64724
398.9834	85.9100	271.7556	10.7591	-0.0349	0.9994	0.0000	-0.20596	-0.24649	-0.29818	-0.51319
400.5284	85.9640	271.9747	7.2852	-0.0349	0.9994	0.0000	-0.19447	-0.22982	-0.28253	-0.35861
401.4940	85.9977	272.1773	3.9384	-0.0350	0.9994	0.0000	-0.18569	-0.21639	-0.27492	-0.30386
402.1650	86.0212	272.6461	3.6975	-0.0349	0.9994	0.0000	-0.17959	-0.20713	-0.26705	-0.28923
402.8414	86.0448	273.4402	3.7133	-0.0349	0.9994	0.0000	-0.17268	-0.19783	-0.25893	-0.27212
403.5766	86.0705	274.5271	3.9211	-0.0349	0.9994	0.0000	-0.16597	-0.18860	-0.25098	-0.25525
404.4142	86.0997	275.8467	4.2810	-0.0349	0.9994	0.0000	-0.15929	-0.17963	-0.24273	-0.23994
405.3893	86.1338	277.3302	4.7779	-0.0349	0.9994	0.0000	-0.15296	-0.17133	-0.23498	-0.22581
406.5318	86.1737	278.9168	5.3952	-0.0349	0.9994	0.0000	-0.14698	-0.16386	-0.22732	-0.21297
407.8703	86.2204	280.5644	6.1309	-0.0349	0.9994	0.0000	-0.14149	-0.15739	-0.22014	-0.20167
409.4351	86.2751	282.2472	6.9739	-0.0349	0.9994	0.0000	-0.13654	-0.15192	-0.21325	-0.19199
411.2616	86.3389	283.9484	7.9389	-0.0349	0.9994	0.0000	-0.13216	-0.14731	-0.20669	-0.18377
413.3939	86.4133	285.6589	9.0412	-0.0349	0.9994	0.0000	-0.12823	-0.14320	-0.20025	-0.17656
415.8896	86.5004	287.3731	10.3206	-0.0349	0.9994	0.0000	-0.12470	-0.13919	-0.19384	-0.16988
418.8299	86.6031	289.0889	11.8510	-0.0349	0.9994	0.0000	-0.12146	-0.13481	-0.18725	-0.16320
422.3381	86.7256	290.8072	13.7598	-0.0349	0.9994	0.0000	-0.11851	-0.12988	-0.18037	-0.15629
426.6023	86.8745	292.5273	16.1757	-0.0349	0.9994	0.0000	-0.11568	-0.12421	-0.17273	-0.14887
431.9010	87.0596	294.2339	19.1847	-0.0349	0.9994	0.0000	-0.11300	-0.11780	-0.16460	-0.14144
438.6075	87.2938	295.9090	22.6621	-0.0349	0.9994	0.0000	-0.11035	-0.11047	-0.15606	-0.13373
447.0858	87.5898	297.5351	26.0200	-0.0349	0.9994	0.0000	-0.10813	-0.10299	-0.14828	-0.12752
457.5032	87.9536	299.0537	28.5146	-0.0349	0.9994	0.0000	-0.10653	-0.09531	-0.14176	-0.12095
469.7316	88.3807	300.3566	29.8479	-0.0349	0.9994	0.0000	-0.10727	-0.08910	-0.13898	-0.11266
483.3663	88.8570	301.3283	30.2094	-0.0349	0.9994	0.0000	-0.10900	-0.08373	-0.13730	-0.10192
497.7464	89.3592	301.8993	29.9029	-0.0349	0.9994	0.0000	-0.11913	-0.08678	-0.14369	-0.09870
511.8572	89.8519	301.9875	28.3741	-0.0349	0.9994	0.0000	-0.13417	-0.09471	-0.17039	-0.09747
523.5370	90.2596	301.3937	20.0253	-0.0349	0.9994	0.0000	-0.16606	-0.12072	-0.11972	-0.11438
370.8575	82.8432	273.3356	19.4120	-0.2748	0.9615	0.0050	0.09617	0.00951	-0.37030	-0.16818
374.7131	83.7400	272.6155	20.9435	-0.1864	0.9823	-0.0174	-0.26535	-0.29797	-0.41012	-0.37216
379.1722	84.4594	272.6469	21.6908	-0.1335	0.9909	-0.0195	-0.34899	-0.45579	-0.46104	-0.50120
384.5001	85.0935	273.4866	28.9960	-0.1032	0.9946	-0.0084	-0.35636	-0.51228	-0.41745	-0.55625
389.8435	85.5435	274.8779	24.4725	-0.0560	0.9984	-0.0018	-0.36530	-0.60642	-0.42086	-0.64703
393.9317	85.7359	276.2350	20.0340	-0.0342	0.9994	0.0002	-0.28788	-0.56147	-0.34641	-0.67817
396.9431	85.8393	277.2661	15.4492	-0.0345	0.9994	0.0000	-0.21490	-0.34686	-0.30223	-0.64095
399.1027	85.9142	277.8994	11.4902	-0.0349	0.9994	0.0000	-0.19705	-0.21641	-0.28767	-0.54800
400.6283	85.9675	278.1658	8.2025	-0.0349	0.9994	0.0000	-0.18719	-0.21208	-0.27343	-0.39134
401.6156	86.0020	278.3327	4.6581	-0.0349	0.9994	0.0000	-0.17888	-0.20522	-0.26551	-0.29531
402.3489	86.0276	278.7275	4.6791	-0.0349	0.9994	0.0000	-0.17233	-0.19629	-0.25782	-0.27453
403.1249	86.0547	279.4408	4.8140	-0.0350	0.9994	0.0000	-0.16554	-0.18768	-0.24972	-0.25816
403.9741	86.0844	280.4311	5.0622	-0.0349	0.9994	0.0000	-0.15909	-0.18001	-0.24205	-0.24314
404.9256	86.1176	281.6308	5.4092	-0.0349	0.9994	0.0000	-0.15296	-0.17315	-0.23421	-0.23055
406.0045	86.1552	282.9685	5.8458	-0.0349	0.9994	0.0000	-0.14734	-0.16721	-0.22695	-0.22024
407.2327	86.1982	284.3842	6.3598	-0.0349	0.9994	0.0000	-0.14229	-0.16213	-0.21991	-0.21166
408.6324	86.2470	285.8371	6.9530	-0.0349	0.9994	0.0000	-0.13784	-0.15786	-0.21341	-0.20423
410.2280	86.3027	287.3032	7.6202	-0.0349	0.9994	0.0000	-0.13386	-0.15405	-0.20713	-0.19741
412.0490	86.3663	288.7696	8.3852	-0.0349	0.9994	0.0000	-0.13036	-0.15043	-0.20117	-0.19082
414.1349	86.4392	290.2319	9.2785	-0.0349	0.9994	0.0000	-0.12722	-0.14668	-0.19524	-0.18420
416.5399	86.5231	291.6905	10.3560	-0.0349	0.9994	0.0000	-0.12434	-0.14250	-0.18920	-0.17720
419.3451	86.6211	293.1479	11.7144	-0.0349	0.9994	0.0000	-0.12165	-0.13775	-0.18277	-0.16984
422.6767	86.7375	294.6064	13.4890	-0.0349	0.9994	0.0000	-0.11918	-0.13248	-0.17577	-0.16210
426.7260	86.8789	296.0614	15.7955	-0.0349	0.9994	0.0000	-0.11681	-0.12640	-0.16773	-0.15371
431.7755	87.0552	297.4881	18.7187	-0.0349	0.9994	0.0000	-0.11457	-0.11933	-0.15891	-0.14397
438.2064	87.2798	298.8673	22.1554	-0.0349	0.9994	0.0000	-0.11240	-0.11063	-0.14923	-0.13280
446.3862	87.5654	300.1993	25.5061	-0.0349	0.9994	0.0000	-0.11073	-0.10125	-0.14082	-0.11963
456.4790	87.9179	301.4500	27.9941	-0.0349	0.9994	0.0000	-0.11015	-0.09309	-0.13589	-0.10796
468.3487	88.3324	302.5365	29.2763	-0.0349	0.9994	0.0000	-0.11219	-0.08851	-0.13690	-0.10083
481.5838	88.7948	303.3675	29.5077	-0.0349	0.9994	0.0000	-0.11555	-0.08591	-0.14032	-0.09466
495.5324	89.2819	303.8954	28.9852	-0.0349	0.9994	0.0000	-0.12782	-0.09269	-0.15115	-0.09750
509.2404	89.7604	304.0791	27.5627	-0.0349	0.9994	0.0000	-0.14378	-0.10252	-0.18236	-0.10019
520.9021	90.1676	303.7202	21.3325	-0.0349	0.9994	0.0000	-0.17739	-0.12958	-0.13712	-0.11983
373.0568	83.3934	278.0340	18.4287	-0.2502	0.9681	0.0139	-0.02446	-0.12666	-0.47346	-0.27152
376.6267	84.1451	277.2567	18.9583	-0.1654	0.9862	-0.0102	-0.29137	-0.34475	-0.39272	-0.40888
380.6961	84.7290	277.3730	19.0645	-0.1190	0.9928	-0.0128	-0.33227	-0.46512	-0.46826	-0.52070
385.7150	85.2423	278.5231	27.0977	-0.0865	0.9962	-0.0052	-0.33892	-0.50676	-0.41621	-0.56015
390.8024	85.6016	280.3877	21.9187	-0.0458	0.9989	-0.0017	-0.33936	-0.58066	-0.40389	-0.63462
394.5778	85.7578	282.1503	17.8391	-0.0342	0.9994	-0.0001	-0.26469	-0.52623	-0.32825	-0.65581
397.3473	85.8531	283.4859	13.9616	-0.0347	0.9994	0.0000	-0.21028	-0.33978	-0.29771	-0.63088
399.3694	85.9235	284.3304	10.8220	-0.0349	0.9994	0.0000	-0.19665	-0.23264	-0.28009	-0.57749
400.8507	85.9753	284.7061	8.1238	-0.0349	0.9994	0.0000	-0.18673	-0.22351	-0.26661	-0.46029

401.8430	86.0099	284.8721	4.7747	-0.0348	0.9994	0.0000	-0.17842	-0.22072	-0.25725	-0.35731
402.6134	86.0368	285.1928	5.0881	-0.0349	0.9994	0.0000	-0.17062	-0.21053	-0.24931	-0.31867
403.4548	86.0662	285.7930	5.3484	-0.0350	0.9994	0.0000	-0.16300	-0.19879	-0.24072	-0.29313
404.3754	86.0984	286.6256	5.6154	-0.0349	0.9994	0.0000	-0.15613	-0.18862	-0.23335	-0.27247
405.3890	86.1338	287.6244	5.9145	-0.0349	0.9994	0.0000	-0.14997	-0.18035	-0.22586	-0.25561
406.5112	86.1729	288.7270	6.2603	-0.0349	0.9994	0.0000	-0.14459	-0.17372	-0.21935	-0.24196
407.7584	86.2165	289.8857	6.6590	-0.0349	0.9994	0.0000	-0.13998	-0.16827	-0.21317	-0.23079
409.1499	86.2651	291.0704	7.1281	-0.0349	0.9994	0.0000	-0.13615	-0.16374	-0.20774	-0.22146
410.7086	86.3195	292.2654	7.6737	-0.0349	0.9994	0.0000	-0.13288	-0.15970	-0.20260	-0.21297
412.4645	86.3809	293.4654	8.3360	-0.0349	0.9994	0.0000	-0.13006	-0.15577	-0.19779	-0.20483
414.4592	86.4505	294.6721	9.1555	-0.0349	0.9994	0.0000	-0.12756	-0.15169	-0.19300	-0.19689
416.7503	86.5305	295.8888	10.1905	-0.0349	0.9994	0.0000	-0.12529	-0.14725	-0.18808	-0.18880
419.4229	86.6238	297.1175	11.5407	-0.0349	0.9994	0.0000	-0.12309	-0.14237	-0.18271	-0.18047
422.6084	86.7351	298.3542	13.3357	-0.0349	0.9994	0.0000	-0.12110	-0.13722	-0.17692	-0.17206
426.5000	86.8710	299.5832	15.6574	-0.0349	0.9994	0.0000	-0.11906	-0.13181	-0.17019	-0.16390
431.3790	87.0413	300.7614	18.5738	-0.0349	0.9994	0.0000	-0.11699	-0.12597	-0.16274	-0.15724
437.6231	87.2594	301.8650	21.9979	-0.0349	0.9994	0.0000	-0.11452	-0.11914	-0.15449	-0.15096
445.5853	87.5375	302.9150	25.3263	-0.0349	0.9994	0.0000	-0.11209	-0.11103	-0.14598	-0.14522
455.4134	87.8807	303.9026	27.8127	-0.0349	0.9994	0.0000	-0.11002	-0.10136	-0.13751	-0.13495
466.9681	88.2841	304.7698	29.0955	-0.0349	0.9994	0.0000	-0.11030	-0.09317	-0.13236	-0.12240
479.8416	88.7338	305.4486	29.2710	-0.0349	0.9994	0.0000	-0.11075	-0.08548	-0.12854	-0.10811
493.4023	89.2074	305.9075	28.5897	-0.0349	0.9994	0.0000	-0.11951	-0.08664	-0.12937	-0.10172
506.7681	89.6741	306.1462	27.1555	-0.0349	0.9994	0.0000	-0.13315	-0.09329	-0.15846	-0.09968
518.3573	90.0787	306.0228	22.3965	-0.0349	0.9994	0.0000	-0.16674	-0.11771	-0.10475	-0.11027
375.6508	83.9426	282.5457	17.2255	-0.2206	0.9752	0.0191	-0.14669	-0.24713	-0.56236	-0.36876
378.9165	84.5457	281.7774	16.5077	-0.1419	0.9898	-0.0101	-0.29309	-0.37379	-0.37010	-0.45196
382.5759	84.9936	282.0323	15.9038	-0.1000	0.9949	-0.0123	-0.32456	-0.47988	-0.48923	-0.55140
387.2053	85.3814	283.5159	23.6447	-0.0689	0.9976	-0.0043	-0.32701	-0.50649	-0.41577	-0.57601
391.9248	85.6560	285.8144	18.2029	-0.0400	0.9992	-0.0006	-0.31838	-0.55343	-0.39768	-0.63467
395.3233	85.7838	287.8926	14.6130	-0.0337	0.9994	-0.0001	-0.25978	-0.50344	-0.33552	-0.65177
397.8106	85.8691	289.4548	11.4526	-0.0350	0.9994	0.0000	-0.22490	-0.37641	-0.31332	-0.63429
399.6617	85.9338	290.4652	9.1678	-0.0348	0.9994	0.0000	-0.21463	-0.30181	-0.29286	-0.59941
401.0715	85.9830	290.9408	7.1986	-0.0349	0.9994	0.0000	-0.20329	-0.28532	-0.27679	-0.53483
402.0475	86.0170	291.1199	4.3435	-0.0349	0.9994	0.0000	-0.19489	-0.27910	-0.26352	-0.47202
402.8255	86.0442	291.3785	4.7989	-0.0349	0.9994	0.0000	-0.18579	-0.26503	-0.25232	-0.42917
403.6859	86.0743	291.8649	5.1186	-0.0349	0.9994	0.0000	-0.17657	-0.24904	-0.24156	-0.39650
404.6210	86.1069	292.5320	5.3895	-0.0349	0.9994	0.0000	-0.16802	-0.23386	-0.23301	-0.36737
405.6338	86.1423	293.3218	5.6615	-0.0349	0.9994	0.0000	-0.16012	-0.22051	-0.22490	-0.34196
406.7346	86.1807	294.1862	5.9686	-0.0349	0.9994	0.0000	-0.15292	-0.20841	-0.21838	-0.31915
407.9380	86.2228	295.0926	6.3278	-0.0349	0.9994	0.0000	-0.14656	-0.19729	-0.21235	-0.29650
409.2644	86.2691	296.0240	6.7731	-0.0349	0.9994	0.0000	-0.14103	-0.18702	-0.20711	-0.27518
410.7396	86.3206	296.9742	7.3147	-0.0349	0.9994	0.0000	-0.13637	-0.17776	-0.20202	-0.25593
412.3978	86.3785	297.9448	8.0051	-0.0349	0.9994	0.0000	-0.13254	-0.16956	-0.19692	-0.23873
414.2859	86.4444	298.9416	8.8839	-0.0349	0.9994	0.0000	-0.12945	-0.16236	-0.19134	-0.22377
416.4661	86.5206	299.9675	10.0027	-0.0349	0.9994	0.0000	-0.12704	-0.15578	-0.18505	-0.21064
419.0285	86.6100	301.0194	11.4637	-0.0349	0.9994	0.0000	-0.12508	-0.14931	-0.17780	-0.19855
422.1113	86.7177	302.0835	13.3968	-0.0349	0.9994	0.0000	-0.12353	-0.14213	-0.16928	-0.18539
425.9093	86.8504	303.1294	15.8370	-0.0349	0.9994	0.0000	-0.12204	-0.13382	-0.15945	-0.17040
430.7009	87.0176	304.0892	18.8247	-0.0349	0.9994	0.0000	-0.12066	-0.12449	-0.14870	-0.15288
436.8526	87.2325	304.9332	22.2761	-0.0349	0.9994	0.0000	-0.11945	-0.11450	-0.13806	-0.13654
444.6847	87.5060	305.7109	25.5767	-0.0349	0.9994	0.0000	-0.11876	-0.10627	-0.13149	-0.12356
454.3155	87.8423	306.4414	28.0695	-0.0349	0.9994	0.0000	-0.11910	-0.10027	-0.12966	-0.11585
465.6054	88.2366	307.0892	29.4009	-0.0349	0.9994	0.0000	-0.12191	-0.09732	-0.13292	-0.11142
478.1623	88.6751	307.6079	29.5940	-0.0349	0.9994	0.0000	-0.12548	-0.09514	-0.13804	-0.10625
491.3845	89.1369	307.9770	28.8233	-0.0349	0.9994	0.0000	-0.13724	-0.10142	-0.14592	-0.10872
504.4695	89.5938	308.2251	27.2559	-0.0349	0.9994	0.0000	-0.15283	-0.11090	-0.17569	-0.11192
515.9168	89.9935	308.3160	23.1434	-0.0349	0.9994	0.0000	-0.18860	-0.13651	-0.13307	-0.12702
378.6060	84.4609	286.8519	15.7942	-0.1887	0.9817	0.0252	-0.24701	-0.37397	-0.64556	-0.50863
381.5224	84.9206	286.1645	13.8058	-0.1165	0.9932	-0.0066	-0.26188	-0.39451	-0.36173	-0.49404
384.7188	85.2346	286.6092	12.7238	-0.0765	0.9970	-0.0104	-0.32107	-0.50137	-0.55636	-0.59206
388.8268	85.4993	288.4181	19.8177	-0.0526	0.9986	-0.0036	-0.32480	-0.52059	-0.46155	-0.61502
393.0424	85.7001	291.0376	14.9729	-0.0378	0.9993	0.0004	-0.30304	-0.53751	-0.43568	-0.65474
396.0241	85.8077	293.2645	11.7904	-0.0341	0.9994	0.0001	-0.26259	-0.48923	-0.39435	-0.65888
398.2182	85.8833	294.9059	9.2132	-0.0350	0.9994	0.0000	-0.24357	-0.41631	-0.37214	-0.63823
399.8861	85.9416	295.9733	7.4329	-0.0348	0.9994	0.0000	-0.23511	-0.37930	-0.34860	-0.61202
401.1944	85.9872	296.5047	5.9741	-0.0349	0.9994	0.0000	-0.22538	-0.36286	-0.32841	-0.58076
402.1253	86.0197	296.7093	3.7083	-0.0350	0.9994	0.0000	-0.21869	-0.35277	-0.30975	-0.55795
402.8753	86.0460	296.9389	4.1510	-0.0349	0.9994	0.0000	-0.21117	-0.34005	-0.29340	-0.54165
403.6976	86.0747	297.3442	4.4692	-0.0348	0.9994	0.0000	-0.20275	-0.32547	-0.27856	-0.52140
404.5806	86.1055	297.8808	4.7412	-0.0349	0.9994	0.0000	-0.19430	-0.31023	-0.26676	-0.49780
405.5261	86.1385	298.5031	5.0170	-0.0349	0.9994	0.0000	-0.18590	-0.29524	-0.25588	-0.47364
406.5452	86.1741	299.1789	5.3347	-0.0349	0.9994	0.0000	-0.17741	-0.27979	-0.24697	-0.44812
407.6545	86.2129	299.8896	5.7155	-0.0349	0.9994	0.0000	-0.16919	-0.26366	-0.23876	-0.42005
408.8782	86.2556	300.6293	6.2083	-0.0349	0.9994	0.0000	-0.16106	-0.24660	-0.23166	-0.38981
410.2462	86.3034	301.3997	6.8191	-0.0349	0.9994	0.0000	-0.15332	-0.22896	-0.22500	-0.35817
411.7975	86.3575	302.2071	7.6131	-0.0349	0.9994	0.0000	-0.14623	-0.21217	-0.21904	-0.32535
413.5843	86.4199	303.0593	8.6267	-0.0349	0.9994	0.0000	-0.13995	-0.19680	-0.21305	-0.29479
415.6733	86.4929	303.9575	9.9012	-0.0349	0.9994	0.0000	-0.13486	-0.18385	-0.20734	-0.26742
418.1598	86.5797	304.8921	11.5528	-0.0349	0.9994	0.0000	-0.13082	-0.17322	-0.20063	-0.24520
421.1924	86.6856	305.8381	13.7291	-0.0349	0.9994	0.0000	-0.12809	-0.16543	-0.19345	-0.22907
424.9686	86.8175	306.7483	16.3941	-0.0349	0.9994	0.0000	-0.12571	-0.15807	-0.18349	-0.21598
429.7618	86.9848	307.5202	19.5421	-0.0349	0.9994	0.0000	-0.12318	-0.14888	-0.17186	-0.20592
435.9188	87.1998	308.1167	23.0933	-0.0349	0.9994	0.0000	-0.11929	-0.13546	-0.15680	-0.18942
443.7087	87.4719	308.6300	26.4140	-0.0349	0.9994	0.0000	-0.11580	-0.12032	-0.14169	-0.16977
453.2100	87.8037	309.1111	28.9863	-0.0349	0.9994	0.0000	-0.11341	-0.10597	-0.12864	-0.14905
464.2882	88.1905	309.5431	30.4696	-0.0349	0.9994	0.0000	-0.11374	-0.09566	-0.12044	-0.13133
476.5780	88.6198	309.8979	30.7875	-0.0349	0.9994	0.0000	-0.11309	-0.08610	-0.11475	-0.11306
489.5138	89.0716	310.1622	30.0206	-0.0349	0.9994	0.0000	-0.12069	-0.08585	-0.11176	-0.10315
502.3777	89.5208	310.3740	28.2416	-0.0349	0.9994	0.0000	-0.13378	-0.09209	-0.14222	-0.10119
513.5960	89.9124	310.6270	23.5306	-0.0349	0.9994	0.0000	-0.17941	-0.12296	-0.08747	-0.11084
381.8565	84.9105	291.0110	14.0480	-0.1535	0.9877	0.0284	-0.32725	-0.50980	-0.72183	-0.66841
384.3531	85.2310	290.5580	10.8134	-0.0900	0.9959	-0.0015	-0.21093	-0.38172	-0.32759	-0.50787
386.9702	85.4241	291.2938	9.9903	-0.0533	0.9985	-0.0080	-0.34642	-0.53158	-0.61938	-0.65336
390.3600	85.5885	293.3855	16.8342	-0.0409	0.9992	-0.0032	-0.29071	-0.49909	-0.42482	-0.62323
393.9136	85.7318	296.1344	13.2402	-0.0360	0.9994	-0.0001	-0.26471	-0.48999	-0.45253	-0.63085
396.4663	85.8224	298.2787	10.0865	-0.0347	0.9994	0.0001	-0.24118	-0.44450	-0.41699	-0.61983
398.3756	85.8888	299.8113	7.7032	-0.0349	0.9994	0.0000	-0.23230	-0.40766	-0.41456	-0.60576
399.8469	85.9402	300.8134	6.0283	-0.0349	0.9994	0.0000	-0.22706	-0.39418	-0.40280	-0.59447
401.0072	85.9807	301.3616	4.7934	-0.0349	0.9994	0.0000	-0.22337	-0.38574	-0.39482	-0.58198
401.8512	86.0102	301.6180	3.1273	-0.0350	0.9994	0.0000	-0.22082	-0.37936	-0.37927	-0.57344
402.5374	86.0342	301.8628	3.4923	-0.0349	0.9994	0.0000	-0.21838	-0.37488	-0.36498	-0.57208
403.2720	86.0598	302.2258	3.7840	-0.0349	0.9994	0.0000	-0.21478	-0.36880	-0.35026	-0.56647
404.0538	86.0871	302.6722	4.0584	-0.0349	0.9994	0.0000	-0.21099	-0.36246	-0.33660	-0.55978
404.8915	86.1163	303.1745	4.3528	-0.0349	0.9994	0.0000	-0.20657	-0.35483	-0.32179	-0.55095
405.8004	86.1481	303.7170	4.7026	-0.0350	0.9994	0.0000	-0.20135	-0.34537	-0.30676	-0.53868
406.8000	86.1830	304.2939	5.1275	-0.0349	0.9994	0.0000	-0.19529	-0.33364	-0.29056	-0.52334

407.9177	86.2221	304.9076	5.6929	-0.0349	0.9994	0.0000	-0.18817	-0.31903	-0.27344	-0.50420
409.1870	86.2664	305.5649	6.3924	-0.0349	0.9994	0.0000	-0.18017	-0.30066	-0.25563	-0.48121
410.6507	86.3175	306.2754	7.3136	-0.0349	0.9994	0.0000	-0.17156	-0.27833	-0.23718	-0.45275
412.3669	86.3774	307.0488	8.4884	-0.0349	0.9994	0.0000	-0.16268	-0.25303	-0.21851	-0.41684
414.4063	86.4487	307.8841	9.9490	-0.0349	0.9994	0.0000	-0.15417	-0.22495	-0.19984	-0.37353
416.8717	86.5347	308.7653	11.8421	-0.0349	0.9994	0.0000	-0.14650	-0.19649	-0.18146	-0.32343
419.9268	86.6414	309.6544	14.3504	-0.0349	0.9994	0.0000	-0.14087	-0.16938	-0.16268	-0.26510
423.7720	86.7757	310.4857	17.3487	-0.0349	0.9994	0.0000	-0.13749	-0.14936	-0.14560	-0.21115
428.6655	86.9466	311.1081	20.7633	-0.0349	0.9994	0.0000	-0.13670	-0.13658	-0.13125	-0.17281
434.9187	87.1649	311.4752	24.5590	-0.0349	0.9994	0.0000	-0.13636	-0.12844	-0.12204	-0.15397
442.7391	87.4381	311.7400	28.1045	-0.0349	0.9994	0.0000	-0.13543	-0.12238	-0.11980	-0.14308
452.1689	87.7673	311.9893	31.0166	-0.0349	0.9994	0.0000	-0.13602	-0.11694	-0.12272	-0.13597
463.0870	88.1486	312.2180	32.9226	-0.0349	0.9994	0.0000	-0.13976	-0.11377	-0.12887	-0.13103
475.1629	88.5703	312.4127	33.5908	-0.0349	0.9994	0.0000	-0.14396	-0.11112	-0.13649	-0.12598
487.8688	89.0141	312.5654	32.9708	-0.0349	0.9994	0.0000	-0.15413	-0.11532	-0.14255	-0.12596
500.5635	89.4573	312.7027	30.9953	-0.0349	0.9994	0.0000	-0.16775	-0.12293	-0.16859	-0.12795
511.4259	89.8366	313.0118	23.4662	-0.0349	0.9994	0.0000	-0.21061	-0.15125	-0.13938	-0.14349
385.2148	85.2499	295.5185	8.5807	-0.1231	0.9920	0.0288	-0.31619	-0.61363	-0.74241	-0.76623
387.0143	85.4250	295.9680	9.6244	-0.0768	0.9970	0.0106	-0.20494	-0.43686	-0.51675	-0.56487
388.8358	85.5355	297.0030	10.1765	-0.0501	0.9987	0.0016	-0.33963	-0.60033	-0.74085	-0.73603
391.3987	85.6412	298.9865	18.5371	-0.0360	0.9994	-0.0012	-0.26359	-0.54081	-0.58897	-0.69900
394.2754	85.7454	301.3495	12.9872	-0.0351	0.9994	-0.0001	-0.25693	-0.51821	-0.61026	-0.69160
396.4081	85.8202	303.0421	9.0412	-0.0349	0.9994	0.0000	-0.23927	-0.48608	-0.55661	-0.68343
398.0108	85.8761	304.2322	6.4805	-0.0349	0.9994	0.0000	-0.23664	-0.47151	-0.56438	-0.67790
399.2262	85.9185	305.0426	4.7884	-0.0349	0.9994	0.0000	-0.23017	-0.46292	-0.53788	-0.67022
400.1549	85.9509	305.5621	3.6355	-0.0349	0.9994	0.0000	-0.22882	-0.45472	-0.53591	-0.66141
400.8483	85.9752	305.8898	2.6824	-0.0349	0.9994	0.0000	-0.22659	-0.45044	-0.51920	-0.65733
401.4484	85.9961	306.1865	3.0096	-0.0349	0.9994	0.0000	-0.22810	-0.45287	-0.51890	-0.66439
402.0923	86.0186	306.5381	3.2988	-0.0349	0.9994	0.0000	-0.22667	-0.45121	-0.50833	-0.66372
402.7876	86.0429	306.9326	3.5912	-0.0349	0.9994	0.0000	-0.22615	-0.44998	-0.50449	-0.66298
403.5467	86.0694	307.3634	3.9153	-0.0349	0.9994	0.0000	-0.22381	-0.44581	-0.49472	-0.65986
404.3855	86.0987	307.8296	4.3040	-0.0349	0.9994	0.0000	-0.22110	-0.43990	-0.48723	-0.65408
405.3235	86.1315	308.3338	4.7703	-0.0349	0.9994	0.0000	-0.21705	-0.43152	-0.47575	-0.64696
406.3900	86.1687	308.8842	5.4024	-0.0349	0.9994	0.0000	-0.21220	-0.42103	-0.46468	-0.63825
407.6204	86.2117	309.4906	6.1696	-0.0349	0.9994	0.0000	-0.20609	-0.40790	-0.44968	-0.62806
409.0616	86.2620	310.1650	7.1978	-0.0349	0.9994	0.0000	-0.19911	-0.39225	-0.43402	-0.61506
410.7794	86.3220	310.9204	8.5164	-0.0349	0.9994	0.0000	-0.19082	-0.37316	-0.41325	-0.59749
412.8518	86.3944	311.7547	10.1444	-0.0349	0.9994	0.0000	-0.18132	-0.34918	-0.38919	-0.57097
415.3929	86.4831	312.6460	12.2762	-0.0349	0.9994	0.0000	-0.16993	-0.31863	-0.35682	-0.53149
418.5824	86.5944	313.5406	15.1145	-0.0349	0.9994	0.0000	-0.15681	-0.27968	-0.31744	-0.47115
422.6208	86.7355	314.3562	18.5184	-0.0349	0.9994	0.0000	-0.14272	-0.23530	-0.26739	-0.39357
427.7240	86.9137	314.8885	22.3591	-0.0349	0.9994	0.0000	-0.13160	-0.18722	-0.21194	-0.30240
434.1312	87.1375	315.0813	26.7434	-0.0349	0.9994	0.0000	-0.12343	-0.14734	-0.15852	-0.22921
442.0072	87.4125	315.1546	31.1679	-0.0349	0.9994	0.0000	-0.11931	-0.12192	-0.12611	-0.18608
451.3993	87.7405	315.2245	35.2051	-0.0349	0.9994	0.0000	-0.11822	-0.10512	-0.10789	-0.15627
462.2095	88.1180	315.2905	38.2765	-0.0349	0.9994	0.0000	-0.12026	-0.09473	-0.09731	-0.13307
474.1382	88.5345	315.3489	39.8753	-0.0349	0.9994	0.0000	-0.12111	-0.08548	-0.09026	-0.11163
486.6853	88.9727	315.3970	39.6845	-0.0349	0.9994	0.0000	-0.12955	-0.08574	-0.08594	-0.10012
499.2406	89.4111	315.4431	37.5994	-0.0349	0.9994	0.0000	-0.14388	-0.09249	-0.11573	-0.09704
509.4989	89.7694	315.5941	22.5632	-0.0349	0.9994	0.0000	-0.20774	-0.13478	-0.04790	-0.11200

plate top middle

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
405.3226	86.1315	256.6226	0.0673	-0.0350	0.9994	0.0000	-0.17610	-0.20100	-0.29206	-0.24007
405.4666	86.1365	255.8381	0.2252	-0.0352	0.9994	0.0000	-0.17260	-0.20386	-0.28334	-0.24986
405.6702	86.1437	254.9938	0.4183	-0.0354	0.9994	-0.0001	-0.16949	-0.20415	-0.27920	-0.25278
405.9571	86.1537	254.0916	0.6557	-0.0354	0.9994	-0.0002	-0.16728	-0.20331	-0.27800	-0.25160
406.3498	86.1675	253.1275	0.9521	-0.0353	0.9994	-0.0001	-0.16504	-0.20194	-0.27672	-0.24897
406.8607	86.1853	252.0926	1.3240	-0.0352	0.9994	-0.0002	-0.16258	-0.19991	-0.27586	-0.24501
407.5187	86.2083	250.9866	1.7937	-0.0352	0.9994	-0.0002	-0.15983	-0.19698	-0.27493	-0.23951
408.3685	86.2380	249.7983	2.4386	-0.0352	0.9994	-0.0002	-0.15655	-0.19283	-0.27379	-0.23222
409.4488	86.2758	248.5099	3.2743	-0.0351	0.9994	-0.0002	-0.15277	-0.18765	-0.27252	-0.22349
410.8227	86.3238	247.1126	4.4444	-0.0351	0.9994	-0.0002	-0.14837	-0.18118	-0.27084	-0.21312
412.5809	86.3852	245.5851	6.0869	-0.0350	0.9994	-0.0002	-0.14323	-0.17336	-0.26881	-0.20120
414.8376	86.4640	243.9096	8.4081	-0.0350	0.9994	-0.0002	-0.13720	-0.16401	-0.26610	-0.18773
417.7434	86.5654	242.0702	11.7110	-0.0350	0.9994	-0.0002	-0.13024	-0.15314	-0.26267	-0.17310
421.4933	86.6963	240.0563	16.4138	-0.0350	0.9994	-0.0001	-0.12204	-0.14059	-0.25805	-0.15756
426.3295	86.8652	237.8755	22.9986	-0.0349	0.9994	-0.0001	-0.11255	-0.12634	-0.25220	-0.14154
432.5228	87.0815	235.5584	31.9279	-0.0349	0.9994	-0.0001	-0.10177	-0.11066	-0.24465	-0.12541
440.3501	87.3548	233.1766	43.4965	-0.0349	0.9994	-0.0001	-0.09047	-0.09464	-0.23718	-0.10977
450.0399	87.6931	230.8453	57.4448	-0.0349	0.9994	-0.0001	-0.08024	-0.08039	-0.23145	-0.09576
461.6959	88.1001	228.7302	72.6354	-0.0349	0.9994	0.0000	-0.07195	-0.06866	-0.23037	-0.08248
475.2090	88.5720	227.0286	86.8159	-0.0349	0.9994	0.0000	-0.06614	-0.05906	-0.23495	-0.06937
490.1963	89.0958	225.9299	97.0728	-0.0350	0.9994	0.0000	-0.06163	-0.05024	-0.24111	-0.05573
506.0024	89.6478	225.5831	100.6889	-0.0348	0.9994	0.0000	-0.06590	-0.04888	-0.25232	-0.05034
521.8241	90.1998	226.0465	96.9680	-0.0349	0.9994	0.0000	-0.07812	-0.05343	-0.28506	-0.04956
534.4461	90.6406	226.9516	58.0071	-0.0349	0.9994	0.0000	-0.13388	-0.10273	-0.31196	-0.08827
405.3966	86.1341	256.6768	0.0617	-0.0357	0.9994	-0.0002	-0.17387	-0.20224	-0.27989	-0.24494
405.6899	86.1444	256.0072	0.2081	-0.0355	0.9994	-0.0001	-0.16954	-0.20217	-0.27211	-0.25071
406.0423	86.1569	255.2930	0.3893	-0.0355	0.9994	0.0000	-0.16585	-0.19949	-0.27051	-0.24816
406.4724	86.1721	254.5386	0.6162	-0.0354	0.9994	-0.0001	-0.16325	-0.19667	-0.26900	-0.24328
407.0016	86.1906	253.7410	0.9048	-0.0353	0.9994	-0.0002	-0.16047	-0.19368	-0.26775	-0.23823
407.6424	86.2130	252.8922	1.2610	-0.0353	0.9994	-0.0002	-0.15752	-0.19015	-0.26678	-0.23218
408.4175	86.2402	251.9944	1.7146	-0.0352	0.9994	-0.0002	-0.15447	-0.18611	-0.26579	-0.22523
409.3712	86.2736	251.0377	2.3480	-0.0351	0.9994	-0.0002	-0.15098	-0.18114	-0.26464	-0.21696
410.5444	86.3146	250.0057	3.1598	-0.0351	0.9994	-0.0002	-0.14710	-0.17540	-0.26326	-0.20764
411.9960	86.3653	248.8924	4.3025	-0.0351	0.9994	-0.0002	-0.14279	-0.16875	-0.26151	-0.19726
413.8160	86.4288	247.6797	5.9087	-0.0350	0.9994	-0.0002	-0.13791	-0.16110	-0.25937	-0.18585
416.1173	86.5092	246.3521	8.1801	-0.0350	0.9994	-0.0002	-0.13231	-0.15231	-0.25646	-0.17342
419.0483	86.6115	244.8960	11.4145	-0.0349	0.9994	-0.0002	-0.12593	-0.14236	-0.25279	-0.16032
422.8006	86.7425	243.3026	16.0152	-0.0349	0.9994	-0.0001	-0.11857	-0.13122	-0.24798	-0.14683
427.6116	86.9104	241.5780	22.4636	-0.0349	0.9994	-0.0001	-0.11022	-0.11894	-0.24217	-0.13335
433.7472	87.1246	239.7457	31.2085	-0.0349	0.9994	-0.0001	-0.10094	-0.10579	-0.23510	-0.12016
441.4781	87.3945	237.8625	42.5505	-0.0349	0.9994	-0.0001	-0.09132	-0.09255	-0.22829	-0.10751
451.0276	87.7279	236.0195	56.2382	-0.0349	0.9994	0.0000	-0.08264	-0.08073	-0.22286	-0.09592
462.4952	88.1282	234.3484	71.1714	-0.0349	0.9994	0.0000	-0.07536	-0.07055	-0.22070	-0.08415
475.7737	88.5919	233.0052	85.1400	-0.0349	0.9994	0.0000	-0.07050	-0.06201	-0.22393	-0.07221
490.4893	89.1060	232.1379	95.2637	-0.0349	0.9994	0.0000	-0.06629	-0.05334	-0.22931	-0.05897
506.0052	89.6478	231.8648	98.8480	-0.0349	0.9994	0.0000	-0.07215	-0.05313	-0.24326	-0.05424
521.5672	90.1909	232.2335	95.4925	-0.0349	0.9994	0.0000	-0.08172	-0.05516	-0.26879	-0.05169
534.2612	90.6341	232.9581	60.1690	-0.0349	0.9994	0.0000	-0.14192	-0.10711	-0.29291	-0.09130
405.4551	86.1362	256.7557	0.0573	-0.0356	0.9994	-0.0001	-0.17245	-0.19751	-0.28393	-0.23665
405.8654	86.1507	256.2493	0.1929	-0.0355	0.9994	-0.0002	-0.16703	-0.19692	-0.27345	-0.24280
406.3333	86.1672	255.7086	0.3613	-0.0354	0.9994	-0.0001	-0.16262	-0.19323	-0.26913	-0.23945
406.8738	86.1863	255.1379	0.5731	-0.0354	0.9994	-0.0001	-0.15949	-0.18929	-0.26665	-0.23316
407.5070	86.2086	254.5349	0.8448	-0.0353	0.9994	-0.0002	-0.15629	-0.18534	-0.26420	-0.22697
408.2466	86.2346	253.8938	1.1817	-0.0353	0.9994	-0.0003	-0.15306	-0.18101	-0.26229	-0.22002
409.1122	86.2650	253.2166	1.6131	-0.0352	0.9994	-0.0002	-0.14980	-0.17638	-0.26037	-0.21246
410.1471	86.3012	252.4961	2.2216	-0.0352	0.9994	-0.0003	-0.14626	-0.17111	-0.25844	-0.20403
411.3936	86.3448	251.7198	3.0058	-0.0351	0.9994	-0.0003	-0.14245	-0.16532	-0.25636	-0.19488
412.9083	86.3978	250.8836	4.1149	-0.0350	0.9994	-0.0002	-0.13826	-0.15884	-0.25393	-0.18497
414.7802	86.4631	249.9737	5.6827	-0.0350	0.9994	-0.0002	-0.13362	-0.15162	-0.25118	-0.17433
417.1206	86.5448	248.9786	7.9091	-0.0350	0.9994	-0.0002	-0.12831	-0.14347	-0.24762	-0.16296
420.0753	86.6479	247.8873	11.0929	-0.0349	0.9994	-0.0002	-0.12236	-0.13447	-0.24344	-0.15121
423.8329	86.7790	246.6936	15.6316	-0.0349	0.9994	-0.0001	-0.11553	-0.12449	-0.23805	-0.13928
428.6264	86.9462	245.4028	22.0090	-0.0349	0.9994	-0.0001	-0.10780	-0.11359	-0.23167	-0.12747
434.7179	87.1588	244.0318	30.6691	-0.0349	0.9994	-0.0001	-0.09929	-0.10197	-0.22411	-0.11604
442.3738	87.4260	242.6235	41.9075	-0.0349	0.9994	0.0000	-0.09042	-0.09008	-0.21653	-0.10487
451.8139	87.7555	241.2459	55.4584	-0.0349	0.9994	0.0000	-0.08233	-0.07906	-0.21017	-0.09420
463.1360	88.1508	239.9979	70.2095	-0.0349	0.9994	0.0000	-0.07534	-0.06898	-0.20646	-0.08282
476.2342	88.6082	238.9965	83.9694	-0.0349	0.9994	0.0000	-0.07096	-0.06056	-0.20807	-0.07143
490.7407	89.1148	238.3500	93.9061	-0.0349	0.9994	0.0000	-0.06704	-0.05190	-0.21223	-0.05861
506.0405	89.6490	238.1473	97.5364	-0.0349	0.9994	0.0000	-0.07397	-0.05257	-0.22873	-0.05456
521.4061	90.1853	238.4234	94.3272	-0.0349	0.9994	0.0000	-0.08445	-0.05560	-0.25710	-0.05276
534.1352	90.6297	238.9670	61.6493	-0.0349	0.9994	0.0000	-0.14485	-0.10512	-0.28738	-0.08907
405.5012	86.1378	256.8372	0.0516	-0.0352	0.9994	0.0003	-0.17131	-0.19593	-0.27633	-0.23539
406.0033	86.1556	256.4998	0.1732	-0.0353	0.9994	0.0001	-0.16496	-0.19373	-0.26712	-0.23960
406.5608	86.1753	256.1392	0.3245	-0.0355	0.9994	-0.0002	-0.15997	-0.18854	-0.26355	-0.23401
407.1866	86.1975	255.7586	0.5158	-0.0355	0.9994	-0.0002	-0.15651	-0.18354	-0.26085	-0.22607
407.8996	86.2227	255.3566	0.7635	-0.0353	0.9994	-0.0002	-0.15304	-0.17882	-0.25829	-0.21882
408.7145	86.2514	254.9292	1.0734	-0.0352	0.9994	-0.0002	-0.14957	-0.17382	-0.25611	-0.21102
409.6497	86.2842	254.4776	1.4745	-0.0352	0.9994	-0.0002	-0.14612	-0.16866	-0.25385	-0.20282
410.7474	86.3227	253.9969	2.0441	-0.0351	0.9994	-0.0002	-0.14254	-0.16317	-0.25163	-0.19418
412.0509	86.3683	253.4791	2.7871	-0.0350	0.9994	-0.0002	-0.13874	-0.15730	-0.24920	-0.18504
413.6158	86.4230	252.9215	3.8448	-0.0350	0.9994	-0.0002	-0.13467	-0.15098	-0.24647	-0.17545
415.5297	86.4899	252.3151	5.3501	-0.0349	0.9994	-0.0002	-0.13025	-0.14416	-0.24343	-0.16543
417.9022	86.5726	251.6520	7.5025	-0.0349	0.9994	-0.0002	-0.12526	-0.13663	-0.23960	-0.15495
420.8770	86.6764	250.9243	10.5987	-0.0349	0.9994	-0.0001	-0.11970	-0.12845	-0.23511	-0.14433
424.6399	86.8076	250.1283	15.0346	-0.0349	0.9994	-0.0001	-0.11340	-0.11952	-0.22952	-0.13374
429.4201	86.9743	249.2681	21.2994	-0.0349	0.9994	-0.0001	-0.10633	-0.10983	-0.22300	-0.12341
435.4765	87.1856	248.3541	29.8480	-0.0349	0.9994	-0.0001	-0.09866	-0.09957	-0.21554	-0.11356
443.0729	87.4506	247.4152	40.9873	-0.0349	0.9994	-0.0001	-0.09070	-0.08893	-0.20802	-0.10380
452.4273	87.7771	246.4963	54.4629	-0.0349	0.9994	0.0000	-0.08347	-0.07886	-0.20183	-0.09417
463.6375	88.1684	245.6637	69.1753	-0.0349	0.9994	0.0000	-0.07716	-0.06934	-0.19775	-0.08347
476.6009	88.6210	244.9963	82.9320	-0.0349	0.9994	0.0000	-0.07360	-0.06152	-0.19883	-0.07279
490.9555	89.1223	244.5648	92.8785	-0.0349	0.9994	0.0000	-0.07022	-0.05328	-0.20218	-0.06058
506.1061	89.6513	244.4303	96.6592	-0.0349	0.9994	0.0000	-0.07769	-0.05454	-0.21937	-0.05658
521.3346	90.1828	244.6157	93.4696	-0.0349	0.9994	0.0000	-0.08792	-0.05774	-0.24352	-0.05461
534.0658	90.6273	244.9780	62.4589	-0.0349	0.9994	0.0000	-0.14301	-0.10064	-0.26639	-0.08355
405.5314	86.1389	256.9188	0.0472	-0.0355	0.9994	-0.0005	-0.17057	-0.19458	-0.27631	-0.23289
406.0935	86.1588	256.7503	0.1584	-0.0356	0.9994	-0.0003	-0.16358	-0.19149	-0.26567	-0.23649
406.7093	86.1807	256.5698	0.2970	-0.0355	0.9994	-0.0001	-0.15826	-0.18538	-0.26103	-0.22980
407.3903	86.2048	256.3794	0.4738	-0.0354	0.9994	0.0000	-0.15453	-0.17963	-0.25764	-0.22092
408.1548	86.2318	256.1784	0.7041	-0.0353	0.9994	-0.0001	-0.15076	-0.17425	-0.25435	-0.21295

409.0180	86.2622	255.9647	0.9952	-0.0352	0.9994	-0.0002	-0.14712	-0.16873	-0.25156	-0.20460
409.9984	86.2967	255.7387	1.3758	-0.0352	0.9994	-0.0002	-0.14351	-0.16317	-0.24873	-0.19601
411.1370	86.3367	255.4979	1.9182	-0.0350	0.9994	-0.0002	-0.13990	-0.15750	-0.24604	-0.18726
412.4778	86.3836	255.2385	2.6333	-0.0350	0.9994	-0.0002	-0.13609	-0.15156	-0.24309	-0.17815
414.0763	86.4396	254.9595	3.6560	-0.0350	0.9994	-0.0002	-0.13215	-0.14541	-0.24000	-0.16888
416.0186	86.5074	254.6565	5.1176	-0.0349	0.9994	-0.0001	-0.12787	-0.13887	-0.23649	-0.15933
418.4132	86.5909	254.3256	7.2174	-0.0349	0.9994	-0.0001	-0.12312	-0.13185	-0.23231	-0.14958
421.4023	86.6951	253.9614	10.2516	-0.0349	0.9994	-0.0001	-0.11790	-0.12436	-0.22748	-0.13986
425.1696	86.8264	253.5631	14.6173	-0.0348	0.9994	-0.0001	-0.11206	-0.11631	-0.22164	-0.13036
429.9418	86.9928	253.1334	20.8040	-0.0349	0.9994	-0.0001	-0.10549	-0.10757	-0.21482	-0.12117
435.9754	87.2033	252.6766	29.2771	-0.0349	0.9994	0.0000	-0.09846	-0.09832	-0.20722	-0.11249
443.5326	87.4669	252.2072	40.3514	-0.0349	0.9994	0.0000	-0.09113	-0.08850	-0.19946	-0.10363
452.8309	87.7913	251.7469	53.7846	-0.0349	0.9994	0.0000	-0.08447	-0.07897	-0.19311	-0.09455
463.9688	88.1801	251.3299	68.4826	-0.0349	0.9994	0.0000	-0.07858	-0.06963	-0.18864	-0.08410
476.8465	88.6297	250.9965	82.2557	-0.0349	0.9994	0.0000	-0.07551	-0.06198	-0.18950	-0.07374
491.1096	89.1277	250.7798	92.2670	-0.0349	0.9994	0.0000	-0.07251	-0.05397	-0.19242	-0.06195
506.1695	89.6535	250.7132	96.0989	-0.0349	0.9994	0.0000	-0.07954	-0.05494	-0.20985	-0.05709
521.3112	90.1821	250.8086	92.9359	-0.0349	0.9994	0.0000	-0.09005	-0.05865	-0.23240	-0.05487
534.0330	90.6262	250.9896	62.8406	-0.0349	0.9994	0.0000	-0.13491	-0.08998	-0.24710	-0.06971
405.5421	86.1393	257.0003	0.0455	-0.0355	0.9994	0.0000	-0.17010	-0.19390	-0.27359	-0.23192
406.1252	86.1600	257.0008	0.1525	-0.0355	0.9994	0.0000	-0.16269	-0.18985	-0.26354	-0.23433
406.7615	86.1825	257.0004	0.2861	-0.0354	0.9994	0.0000	-0.15710	-0.18296	-0.25887	-0.22660
407.4618	86.2074	257.0001	0.4572	-0.0354	0.9994	0.0000	-0.15318	-0.17670	-0.25506	-0.21716
408.2442	86.2350	256.9999	0.6809	-0.0353	0.9994	0.0000	-0.14931	-0.17097	-0.25144	-0.20887
409.1243	86.2661	256.9999	0.9649	-0.0352	0.9994	0.0000	-0.14559	-0.16517	-0.24822	-0.20026
410.1203	86.3011	256.9994	1.3374	-0.0352	0.9994	0.0000	-0.14193	-0.15941	-0.24495	-0.19154
411.2731	86.3416	256.9985	1.8697	-0.0350	0.9994	0.0000	-0.13832	-0.15368	-0.24187	-0.18280
412.6273	86.3890	256.9976	2.5748	-0.0350	0.9994	0.0000	-0.13452	-0.14775	-0.23847	-0.17378
414.2380	86.4454	256.9972	3.5846	-0.0349	0.9994	0.0000	-0.13069	-0.14179	-0.23505	-0.16480
416.1908	86.5135	256.9976	5.0298	-0.0349	0.9994	0.0000	-0.12650	-0.13551	-0.23112	-0.15560
418.5933	86.5974	256.9988	7.1080	-0.0349	0.9994	0.0000	-0.12198	-0.12894	-0.22666	-0.14641
421.5874	86.7017	256.9982	10.1195	-0.0348	0.9994	0.0000	-0.11703	-0.12203	-0.22153	-0.13738
425.3568	86.8331	256.9976	14.4607	-0.0348	0.9994	0.0000	-0.11151	-0.11464	-0.21545	-0.12869
430.1265	86.9994	256.9985	20.6167	-0.0348	0.9994	0.0000	-0.10536	-0.10665	-0.20841	-0.12038
436.1521	87.2095	256.9989	29.0622	-0.0349	0.9994	0.0000	-0.09885	-0.09812	-0.20072	-0.11254
443.6952	87.4726	256.9989	40.1124	-0.0349	0.9994	0.0000	-0.09207	-0.08888	-0.19283	-0.10434
452.9735	87.7964	256.9973	53.5352	-0.0349	0.9994	0.0000	-0.08599	-0.07973	-0.18644	-0.09570
464.0864	88.1842	256.9959	68.2335	-0.0349	0.9994	0.0000	-0.08068	-0.07061	-0.18182	-0.08555
476.9342	88.6328	256.9966	82.0127	-0.0349	0.9994	0.0000	-0.07819	-0.06323	-0.18275	-0.07559
491.1667	89.1298	256.9948	92.0659	-0.0349	0.9994	0.0000	-0.07578	-0.05575	-0.18544	-0.06441
506.1961	89.6544	256.9963	95.9008	-0.0349	0.9994	0.0000	-0.08206	-0.05602	-0.20287	-0.05836
521.3067	90.1819	257.0015	92.7448	-0.0349	0.9994	0.0000	-0.09212	-0.05961	-0.22370	-0.05527
534.0232	90.6258	257.0012	62.9548	-0.0349	0.9994	0.0000	-0.12167	-0.07357	-0.23328	-0.04797
405.5314	86.1389	257.0819	0.0473	-0.0355	0.9994	0.0005	-0.16977	-0.19338	-0.27136	-0.23206
406.0934	86.1588	257.2512	0.1583	-0.0356	0.9994	0.0004	-0.16246	-0.18920	-0.26103	-0.23441
406.7092	86.1807	257.4308	0.2968	-0.0355	0.9994	0.0001	-0.15686	-0.18214	-0.25605	-0.22684
407.3902	86.2048	257.6205	0.4735	-0.0354	0.9994	0.0001	-0.15287	-0.17565	-0.25209	-0.21728
408.1545	86.2318	257.8212	0.7036	-0.0353	0.9994	0.0001	-0.14891	-0.16965	-0.24823	-0.20866
409.0174	86.2622	258.0348	0.9943	-0.0352	0.9994	0.0002	-0.14512	-0.16365	-0.24475	-0.19979
409.9974	86.2967	258.2598	1.3742	-0.0352	0.9994	0.0002	-0.14142	-0.15774	-0.24125	-0.19083
411.1358	86.3367	258.4987	1.9169	-0.0350	0.9994	0.0002	-0.13779	-0.15193	-0.23790	-0.18190
412.4770	86.3836	258.7563	2.6327	-0.0350	0.9994	0.0002	-0.13401	-0.14599	-0.23423	-0.17275
414.0762	86.4396	259.0345	3.6561	-0.0349	0.9994	0.0002	-0.13019	-0.14010	-0.23053	-0.16370
416.0191	86.5074	259.3385	5.1177	-0.0349	0.9994	0.0001	-0.12609	-0.13401	-0.22630	-0.15457
418.4133	86.5909	259.6717	7.2128	-0.0349	0.9994	0.0001	-0.12170	-0.12777	-0.22156	-0.14560
421.4019	86.6951	260.0346	10.2484	-0.0348	0.9994	0.0001	-0.11693	-0.12126	-0.21613	-0.13690
425.1699	86.8265	260.4317	14.6184	-0.0349	0.9994	0.0001	-0.11164	-0.11437	-0.20977	-0.12866
429.9425	86.9929	260.8634	20.8002	-0.0348	0.9994	0.0001	-0.10582	-0.10692	-0.20243	-0.12091
435.9759	87.2033	261.3209	29.2722	-0.0349	0.9994	0.0000	-0.09971	-0.09888	-0.19451	-0.11360
443.5326	87.4669	261.7905	40.3431	-0.0349	0.9994	0.0000	-0.09335	-0.08997	-0.18632	-0.10581
452.8307	87.7914	262.2476	53.7811	-0.0349	0.9994	0.0000	-0.08773	-0.08104	-0.17969	-0.09741
463.9692	88.1802	262.6618	68.4833	-0.0349	0.9994	0.0000	-0.08287	-0.07200	-0.17487	-0.08742
476.8466	88.6297	262.9967	82.2465	-0.0349	0.9994	0.0000	-0.08078	-0.06478	-0.17595	-0.07769
491.1094	89.1277	263.2098	92.2697	-0.0349	0.9994	0.0000	-0.07889	-0.05776	-0.17867	-0.06694
506.1701	89.6535	263.2792	96.1037	-0.0349	0.9994	0.0000	-0.08384	-0.05677	-0.19681	-0.05958
521.3108	90.1820	263.1944	92.9212	-0.0349	0.9994	0.0000	-0.09312	-0.05982	-0.21893	-0.05579
534.0322	90.6261	263.0128	62.8496	-0.0349	0.9994	0.0000	-0.09929	-0.05042	-0.23141	-0.02590
405.5012	86.1378	257.1634	0.0517	-0.0352	0.9994	-0.0003	-0.17018	-0.19420	-0.27184	-0.23367
406.0034	86.1556	257.5017	0.1730	-0.0353	0.9994	-0.0001	-0.16330	-0.19006	-0.26175	-0.23552
406.5610	86.1754	257.8612	0.3240	-0.0355	0.9994	0.0001	-0.15776	-0.18303	-0.25652	-0.22825
407.1868	86.1975	258.2410	0.5152	-0.0354	0.9994	0.0002	-0.15375	-0.17645	-0.25213	-0.21901
407.8996	86.2227	258.6425	0.7623	-0.0353	0.9994	0.0002	-0.14976	-0.17030	-0.24784	-0.21041
408.7139	86.2513	259.0695	1.0715	-0.0352	0.9994	0.0002	-0.14591	-0.16414	-0.24392	-0.20151
409.6486	86.2842	259.5200	1.4720	-0.0352	0.9994	0.0002	-0.14215	-0.15808	-0.23998	-0.19249
410.7462	86.3227	259.9987	2.0420	-0.0351	0.9994	0.0002	-0.13843	-0.15211	-0.23620	-0.18338
412.0503	86.3683	260.5148	2.7861	-0.0350	0.9994	0.0002	-0.13459	-0.14607	-0.23211	-0.17407
413.6164	86.4231	261.0716	3.8449	-0.0350	0.9994	0.0002	-0.13071	-0.14011	-0.22800	-0.16482
415.5311	86.4900	261.6791	5.3496	-0.0349	0.9994	0.0002	-0.12660	-0.13407	-0.22338	-0.15558
417.9029	86.5727	262.3443	7.4949	-0.0349	0.9994	0.0002	-0.12223	-0.12797	-0.21829	-0.14659
420.8771	86.6764	263.0708	10.5934	-0.0349	0.9994	0.0001	-0.11753	-0.12171	-0.21249	-0.13798
424.6411	86.8077	263.8656	15.0360	-0.0349	0.9994	0.0001	-0.11240	-0.11518	-0.20580	-0.12998
429.4218	86.9744	264.7280	21.2935	-0.0349	0.9994	0.0001	-0.10678	-0.10810	-0.19810	-0.12254
435.4778	87.1857	265.6427	29.8397	-0.0349	0.9994	0.0001	-0.10098	-0.10038	-0.18993	-0.11556
443.0734	87.4507	266.5818	40.9752	-0.0349	0.9994	0.0000	-0.09501	-0.09167	-0.18143	-0.10800
452.4275	87.7771	267.4977	54.4570	-0.0349	0.9994	0.0000	-0.08985	-0.08282	-0.17447	-0.09973
463.6386	88.1685	268.3276	69.1760	-0.0349	0.9994	0.0000	-0.08554	-0.07384	-0.16942	-0.08988
476.6013	88.6211	268.9967	82.9180	-0.0349	0.9994	0.0000	-0.08399	-0.06690	-0.17046	-0.08054
490.9555	89.1223	269.4247	92.8824	-0.0349	0.9994	0.0000	-0.08294	-0.06061	-0.17302	-0.07049
506.1069	89.6513	269.5623	96.6657	-0.0349	0.9994	0.0000	-0.08704	-0.05911	-0.19197	-0.06368
521.3337	90.1828	269.3873	93.4429	-0.0349	0.9994	0.0000	-0.09615	-0.06329	-0.21567	-0.06135
534.0642	90.6273	269.0244	62.4779	-0.0349	0.9994	0.0000	-0.08035	-0.04019	-0.23597	-0.02954
405.4552	86.1362	257.2450	0.0574	-0.0356	0.9994	0.0001	-0.17029	-0.19421	-0.27066	-0.23437
405.8657	86.1507	257.7521	0.1926	-0.0354	0.9994	0.0001	-0.16421	-0.19082	-0.26142	-0.23700
406.3337	86.1673	258.2915	0.3607	-0.0354	0.9994	0.0001	-0.15901	-0.18435	-0.25628	-0.23086
406.8743	86.1864	258.8612	0.5723	-0.0354	0.9994	0.0002	-0.15509	-0.17798	-0.25188	-0.22237
407.5074	86.2087	259.4634	0.8434	-0.0354	0.9994	0.0002	-0.15117	-0.17187	-0.24737	-0.21407
408.2464	86.2346	260.1040	1.1794	-0.0353	0.9994	0.0002	-0.14731	-0.16567	-0.24314	-0.20529
409.1114	86.2650	260.7798	1.6100	-0.0352	0.9994	0.0003	-0.14352	-0.15953	-0.23884	-0.19627
410.1464	86.3012	261.4983	2.2190	-0.0352	0.9994	0.0003	-0.13974	-0.15343	-0.23462	-0.18696
411.3938	86.3449	262.2728	3.0047	-0.0351	0.9994	0.0002	-0.13583	-0.14727	-0.23006	-0.17739
412.9100	86.3979	263.1084	4.1149	-0.0350	0.9994	0.0003	-0.13187	-0.14122	-0.22548	-0.16783
414.7827	86.4632	264.0194	5.6817	-0.0350	0.9994	0.0002	-0.12767	-0.13512	-0.22032	-0.15827
417.1220	86.5449	265.0165	7.9010	-0.0350	0.9994	0.0002	-0.12330	-0.12909	-0.21479	-0.14907
420.0760	86.6480	266.1066	11.0882	-0.0349	0.9994	0.0002	-0.11860	-0.12298	-0.20850	-0.14036
423.8349	86.7791	267.2992	15.6331	-0.0349	0.9994	0.0001	-0.11355	-0.11671	-0.20139	-0.13242
428.6288	86.9464	268.5923	22.0029	-0.0349	0.9994	0.0001	-0.10810	-0.10991	-0.19326	-0.12514

434.7197	87.1589	269.9642	30.6616	-0.0349	0.9994	0.0001	-0.10255	-0.10244	-0.18472	-0.11832
442.3747	87.4260	271.3729	41.8966	-0.0349	0.9994	0.0001	-0.09692	-0.09387	-0.17585	-0.11085
451.8145	87.7555	272.7477	55.4547	-0.0349	0.9994	0.0000	-0.09218	-0.08507	-0.16857	-0.10261
463.1374	88.1509	273.9931	70.2128	-0.0349	0.9994	0.0000	-0.08831	-0.07614	-0.16340	-0.09278
476.2347	88.6082	274.9964	83.9550	-0.0349	0.9994	0.0000	-0.08721	-0.06941	-0.16445	-0.08350
490.7405	89.1148	275.6395	93.9094	-0.0349	0.9994	0.0000	-0.08689	-0.06352	-0.16724	-0.07344
506.0407	89.6490	275.8452	97.5373	-0.0349	0.9994	0.0000	-0.09149	-0.06298	-0.18719	-0.06806
521.4035	90.1852	275.5797	94.2896	-0.0349	0.9994	0.0000	-0.10275	-0.06970	-0.21322	-0.06773
534.1325	90.6296	275.0354	61.6825	-0.0349	0.9994	0.0000	-0.08491	-0.05694	-0.23955	-0.05382
405.3967	86.1341	257.3239	0.0618	-0.0357	0.9994	0.0002	-0.17147	-0.19734	-0.27438	-0.24167
405.6904	86.1445	257.9944	0.2079	-0.0356	0.9994	0.0001	-0.16615	-0.19375	-0.26584	-0.24270
406.0431	86.1569	258.7074	0.3890	-0.0354	0.9994	0.0001	-0.16130	-0.18740	-0.26080	-0.23645
406.4735	86.1720	259.4609	0.6161	-0.0354	0.9994	0.0002	-0.15744	-0.18108	-0.25575	-0.22837
407.0026	86.1907	260.2578	0.9046	-0.0354	0.9994	0.0002	-0.15356	-0.17497	-0.25078	-0.22028
407.6427	86.2131	261.1060	1.2603	-0.0352	0.9994	0.0002	-0.14970	-0.16872	-0.24593	-0.21158
408.4174	86.2402	262.0025	1.7139	-0.0352	0.9994	0.0002	-0.14585	-0.16244	-0.24099	-0.20243
409.3716	86.2736	262.9573	2.3489	-0.0352	0.9994	0.0002	-0.14192	-0.15609	-0.23610	-0.19274
410.5461	86.3147	263.9877	3.1629	-0.0351	0.9994	0.0002	-0.13786	-0.14970	-0.23086	-0.18270
411.9991	86.3655	265.1003	4.3075	-0.0350	0.9994	0.0002	-0.13376	-0.14345	-0.22564	-0.17261
413.8197	86.4290	266.3142	5.9139	-0.0350	0.9994	0.0002	-0.12938	-0.13717	-0.21978	-0.16249
416.1196	86.5093	267.6436	8.1797	-0.0350	0.9994	0.0002	-0.12491	-0.13112	-0.21366	-0.15287
419.0502	86.6116	269.0985	11.4197	-0.0349	0.9994	0.0002	-0.12016	-0.12510	-0.20677	-0.14389
422.8038	86.7426	270.6908	16.0274	-0.0349	0.9994	0.0001	-0.11513	-0.11899	-0.19907	-0.13585
427.6148	86.9105	272.4176	22.4702	-0.0349	0.9994	0.0001	-0.10979	-0.11236	-0.19038	-0.12856
433.7496	87.1246	274.2507	31.2146	-0.0349	0.9994	0.0001	-0.10448	-0.10499	-0.18130	-0.12170
441.4796	87.3945	276.1342	42.5548	-0.0349	0.9994	0.0001	-0.09926	-0.09644	-0.17191	-0.11417
451.0289	87.7279	277.9744	56.2458	-0.0349	0.9994	0.0000	-0.09506	-0.08761	-0.16408	-0.10588
462.4972	88.1283	279.6429	71.1795	-0.0349	0.9994	0.0000	-0.09187	-0.07885	-0.15851	-0.09629
475.7744	88.5920	280.9878	85.1289	-0.0349	0.9994	0.0000	-0.09155	-0.07263	-0.15910	-0.08776
490.4889	89.1060	281.8517	95.2640	-0.0349	0.9994	0.0000	-0.09230	-0.06759	-0.16165	-0.07877
506.0044	89.6478	282.1277	98.8436	-0.0349	0.9994	0.0000	-0.09921	-0.06923	-0.18150	-0.07592
521.5632	90.1907	281.7696	95.4577	-0.0349	0.9994	0.0000	-0.11381	-0.07818	-0.20778	-0.07708
534.2579	90.6340	281.0444	60.2108	-0.0349	0.9994	0.0000	-0.11710	-0.08647	-0.23176	-0.08295
405.3229	86.1315	257.3783	0.0675	-0.0351	0.9994	0.0001	-0.17275	-0.19643	-0.27278	-0.23668
405.4676	86.1365	258.1643	0.2248	-0.0354	0.9994	0.0000	-0.16809	-0.19516	-0.26418	-0.24174
405.6719	86.1437	259.0080	0.4176	-0.0354	0.9994	0.0001	-0.16378	-0.19076	-0.25861	-0.23994
405.9593	86.1538	259.9097	0.6548	-0.0353	0.9994	0.0001	-0.16011	-0.18522	-0.25391	-0.23433
406.3521	86.1676	260.8734	0.9509	-0.0353	0.9994	0.0001	-0.15632	-0.17929	-0.24888	-0.22740
406.8627	86.1854	261.9077	1.3219	-0.0352	0.9994	0.0002	-0.15243	-0.17305	-0.24402	-0.21941
407.5208	86.2084	263.0128	1.7915	-0.0352	0.9994	0.0002	-0.14851	-0.16660	-0.23907	-0.21049
408.3716	86.2382	264.1997	2.4367	-0.0352	0.9994	0.0002	-0.14442	-0.15993	-0.23404	-0.20058
409.4536	86.2760	265.4866	3.2730	-0.0352	0.9994	0.0002	-0.14017	-0.15318	-0.22863	-0.19008
410.8288	86.3240	266.8829	4.4431	-0.0351	0.9994	0.0002	-0.13591	-0.14662	-0.22322	-0.17937
412.5870	86.3854	268.4110	6.0860	-0.0350	0.9994	0.0002	-0.13138	-0.14011	-0.21713	-0.16858
414.8422	86.4641	270.0881	8.4033	-0.0350	0.9994	0.0002	-0.12675	-0.13392	-0.21072	-0.15830
417.7480	86.5656	271.9263	11.7087	-0.0350	0.9994	0.0002	-0.12192	-0.12795	-0.20350	-0.14887
421.4990	86.6966	273.9388	16.4135	-0.0349	0.9994	0.0001	-0.11691	-0.12204	-0.19547	-0.14058
426.3346	86.8654	276.1213	22.9944	-0.0349	0.9994	0.0001	-0.11166	-0.11563	-0.18638	-0.13311
432.5270	87.0816	278.4391	31.9220	-0.0349	0.9994	0.0001	-0.10651	-0.10839	-0.17680	-0.12598
440.3537	87.3549	280.8211	43.4906	-0.0349	0.9994	0.0001	-0.10160	-0.09985	-0.16693	-0.11810
450.0435	87.6932	283.1493	57.4384	-0.0349	0.9994	0.0001	-0.09774	-0.09092	-0.15854	-0.10944
461.6994	88.1002	285.2615	72.6288	-0.0349	0.9994	0.0001	-0.09496	-0.08205	-0.15261	-0.09938
475.2107	88.5721	286.9646	86.8003	-0.0349	0.9994	0.0000	-0.09520	-0.07580	-0.15290	-0.09009
490.1962	89.0959	288.0598	97.0632	-0.0350	0.9994	0.0000	-0.09685	-0.07114	-0.15610	-0.08066
506.0009	89.6477	288.4095	100.6786	-0.0348	0.9994	0.0000	-0.10701	-0.07533	-0.17641	-0.07994
521.8204	90.1996	287.9566	96.9473	-0.0349	0.9994	0.0000	-0.12356	-0.08520	-0.20405	-0.08225
534.4435	90.6404	287.0508	58.0400	-0.0349	0.9994	0.0000	-0.14943	-0.10901	-0.22896	-0.10347

plate top lower

X	Y	Z	AREA	EX	EY	EZ	CP1	CP2	CP3	CP4
385.4524	85.2660	218.4233	10.8484	-0.1120	0.9935	-0.0214	-0.67068	-0.64131	-1.93783	-0.71599
387.9487	85.4748	217.5253	14.5773	-0.0654	0.9978	-0.0077	-0.58509	-0.70792	-1.13955	-0.77086
390.5687	85.6124	215.6262	14.1114	-0.0437	0.9990	-0.0005	-0.64399	-0.77962	-1.70012	-0.84031
392.9273	85.7020	213.6277	12.1756	-0.0314	0.9995	0.0006	-0.65431	-0.81824	-1.36810	-0.88140
395.0069	85.7712	211.9167	9.7669	-0.0349	0.9994	0.0000	-0.63296	-0.81711	-1.64931	-0.88294
396.7636	85.8325	210.5567	7.5156	-0.0349	0.9994	0.0000	-0.61930	-0.80936	-1.53422	-0.87722
398.1743	85.8818	209.5564	5.6264	-0.0349	0.9994	0.0000	-0.60183	-0.79112	-1.63532	-0.85495
399.2605	85.9197	208.8713	4.1966	-0.0349	0.9994	0.0000	-0.58520	-0.77104	-1.57424	-0.82651
400.0878	85.9486	208.4407	3.2316	-0.0348	0.9994	0.0000	-0.56950	-0.75281	-1.57259	-0.80080
400.7429	85.9715	208.1575	2.7637	-0.0350	0.9994	0.0000	-0.55979	-0.74272	-1.51627	-0.78709
401.3625	85.9931	207.8708	3.1957	-0.0349	0.9994	0.0000	-0.55312	-0.73921	-1.50143	-0.78183
402.0344	86.0166	207.5156	3.5321	-0.0349	0.9994	0.0000	-0.54557	-0.73340	-1.47482	-0.77363
402.7581	86.0419	207.1102	3.8404	-0.0349	0.9994	0.0000	-0.53828	-0.72809	-1.46732	-0.76459
403.5425	86.0693	206.6658	4.1635	-0.0349	0.9994	0.0000	-0.53091	-0.72386	-1.45606	-0.75573
404.4025	86.0993	206.1859	4.5456	-0.0349	0.9994	0.0000	-0.52287	-0.72024	-1.45239	-0.74634
405.3569	86.1326	205.6688	5.0018	-0.0349	0.9994	0.0000	-0.51424	-0.71722	-1.44746	-0.73648
406.4351	86.1702	205.1070	5.6270	-0.0349	0.9994	0.0000	-0.50403	-0.71343	-1.44431	-0.72500
407.6730	86.2135	204.4905	6.3884	-0.0349	0.9994	0.0000	-0.49224	-0.70890	-1.44104	-0.71170
409.1180	86.2640	203.8072	7.4161	-0.0349	0.9994	0.0000	-0.47723	-0.70126	-1.43519	-0.69494
410.8364	86.3239	203.0440	8.7364	-0.0349	0.9994	0.0000	-0.45881	-0.69228	-1.42969	-0.67430
412.9066	86.3962	202.2029	10.3691	-0.0349	0.9994	0.0000	-0.43291	-0.67312	-1.41384	-0.64186
415.4433	86.4849	201.3059	12.5100	-0.0349	0.9994	0.0000	-0.40079	-0.64266	-1.39442	-0.59853
418.6268	86.5960	200.4060	15.3642	-0.0349	0.9994	0.0000	-0.35399	-0.58738	-1.34839	-0.53171
422.6586	86.7368	199.5855	18.7908	-0.0349	0.9994	0.0000	-0.29958	-0.52484	-1.29896	-0.45408
427.7556	86.9148	199.0495	22.6468	-0.0349	0.9994	0.0000	-0.23011	-0.42301	-1.19170	-0.34486
434.1573	87.1384	198.8539	27.0593	-0.0349	0.9994	0.0000	-0.16841	-0.31352	-1.09262	-0.24633
442.0292	87.4133	198.7780	31.5173	-0.0349	0.9994	0.0000	-0.12673	-0.22928	-1.04218	-0.18131
451.4201	87.7412	198.7052	35.5702	-0.0349	0.9994	0.0000	-0.10123	-0.17352	-1.01893	-0.13694
462.2326	88.1188	198.6361	38.6268	-0.0349	0.9994	0.0000	-0.08406	-0.13505	-1.00315	-0.10359
474.1660	88.5355	198.5742	40.1719	-0.0349	0.9994	0.0000	-0.07300	-0.11118	-0.99097	-0.07760
486.7186	88.9738	198.5226	39.8987	-0.0349	0.9994	0.0000	-0.06215	-0.09639	-0.96253	-0.05837
499.2782	89.4124	198.4740	37.7375	-0.0349	0.9994	0.0000	-0.06590	-0.09692	-0.92387	-0.05274
509.5161	89.7699	198.3243	22.5367	-0.0349	0.9994	0.0000	-0.06542	-0.09547	-0.91470	-0.05943
382.1948	84.9457	222.9766	17.0009	-0.1442	0.9893	-0.0241	-0.53909	-0.54757	-1.31473	-0.59953
385.7672	85.3333	222.9098	15.0442	-0.0716	0.9974	0.0055	-0.46764	-0.62855	-0.58015	-0.66955
389.5832	85.5641	220.9878	12.9914	-0.0432	0.9991	0.0028	-0.49466	-0.71077	-0.94246	-0.75599
392.7303	85.6921	218.5794	11.3881	-0.0348	0.9994	0.0001	-0.46602	-0.73993	-0.66454	-0.79407
395.2001	85.7781	216.4664	9.3685	-0.0347	0.9994	-0.0001	-0.43388	-0.72713	-0.82299	-0.79404
397.1268	85.8452	214.8546	7.3759	-0.0349	0.9994	0.0000	-0.41925	-0.69205	-0.74234	-0.76639
398.6124	85.8971	213.7552	5.7198	-0.0349	0.9994	0.0000	-0.41022	-0.65439	-0.80956	-0.71742
399.7561	85.9370	213.0847	4.5204	-0.0349	0.9994	0.0000	-0.40334	-0.63190	-0.77248	-0.67500
400.6717	85.9690	212.7497	3.8576	-0.0349	0.9994	0.0000	-0.39345	-0.61701	-0.77750	-0.64870
401.4359	85.9957	212.5951	3.3170	-0.0349	0.9994	0.0000	-0.38112	-0.60650	-0.73051	-0.63403
402.1857	86.0219	212.3876	3.9366	-0.0349	0.9994	0.0000	-0.36859	-0.59884	-0.71893	-0.62344
403.0221	86.0511	212.0264	4.3650	-0.0349	0.9994	0.0000	-0.35708	-0.58956	-0.69628	-0.61066
403.9165	86.0823	211.5544	4.6813	-0.0349	0.9994	0.0000	-0.34570	-0.57955	-0.68815	-0.59639
404.8602	86.1153	211.0130	4.9544	-0.0349	0.9994	0.0000	-0.33397	-0.56889	-0.67469	-0.58123
405.8595	86.1502	210.4281	5.2511	-0.0349	0.9994	0.0000	-0.32126	-0.55619	-0.66619	-0.56390
406.9309	86.1876	209.8114	5.6099	-0.0349	0.9994	0.0000	-0.30771	-0.54167	-0.65553	-0.54441
408.1016	86.2284	209.1626	6.1100	-0.0349	0.9994	0.0000	-0.29271	-0.52378	-0.64562	-0.52149
409.4065	86.2740	208.4754	6.7466	-0.0349	0.9994	0.0000	-0.27698	-0.50345	-0.63595	-0.49549
410.8903	86.3258	207.7407	7.6112	-0.0349	0.9994	0.0000	-0.25954	-0.47798	-0.62466	-0.46420
412.6128	86.3860	206.9488	8.7321	-0.0349	0.9994	0.0000	-0.24163	-0.44893	-0.61549	-0.42863
414.6466	86.4570	206.1008	10.1413	-0.0349	0.9994	0.0000	-0.22154	-0.41133	-0.60129	-0.38779
417.0967	86.5426	205.2123	11.9872	-0.0349	0.9994	0.0000	-0.20099	-0.37017	-0.58933	-0.34437
420.1284	86.6484	204.3198	14.4523	-0.0349	0.9994	0.0000	-0.17672	-0.31868	-0.56275	-0.29509
423.9436	86.7816	203.4874	17.4161	-0.0349	0.9994	0.0000	-0.15212	-0.26774	-0.53931	-0.24661
428.8037	86.9514	202.8638	20.8025	-0.0349	0.9994	0.0000	-0.12411	-0.20802	-0.48742	-0.19584
435.0225	87.1686	202.4931	24.6095	-0.0349	0.9994	0.0000	-0.10108	-0.15691	-0.44445	-0.15726
442.8116	87.4406	202.2227	28.2014	-0.0349	0.9994	0.0000	-0.08648	-0.12479	-0.43081	-0.12928
452.2195	87.7691	201.9666	31.1587	-0.0349	0.9994	0.0000	-0.07801	-0.10317	-0.43337	-0.10706
463.1266	88.1500	201.7300	33.0774	-0.0349	0.9994	0.0000	-0.07148	-0.08618	-0.43907	-0.08724
475.1988	88.5716	201.5260	33.7154	-0.0349	0.9994	0.0000	-0.06582	-0.07308	-0.44369	-0.06891
487.9035	89.0153	201.3643	33.0433	-0.0349	0.9994	0.0000	-0.06085	-0.06367	-0.43405	-0.05485
500.5951	89.4585	201.2219	31.0447	-0.0349	0.9994	0.0000	-0.06985	-0.06692	-0.43005	-0.05310
511.4330	89.8369	200.9189	23.4314	-0.0349	0.9994	0.0000	-0.08447	-0.07794	-0.39168	-0.07074
378.8824	84.4989	227.1407	18.1944	-0.1811	0.9832	-0.0218	-0.48136	-0.47229	-1.32925	-0.52391
382.7973	85.0461	227.4615	18.4408	-0.1002	0.9949	0.0083	-0.44157	-0.53942	-0.65338	-0.58511
387.2809	85.4196	226.0123	15.9850	-0.0601	0.9982	0.0065	-0.44922	-0.61932	-0.92450	-0.67118
391.1893	85.6284	223.7241	13.3709	-0.0394	0.9992	0.0020	-0.41797	-0.64494	-0.70586	-0.71068
394.2184	85.7441	221.4916	10.7784	-0.0346	0.9994	0.0001	-0.38264	-0.61770	-0.78452	-0.70618
396.4708	85.8223	219.7497	8.4187	-0.0348	0.9994	0.0000	-0.35723	-0.55943	-0.72176	-0.65214
398.1251	85.8801	218.6001	6.5180	-0.0349	0.9994	0.0000	-0.34358	-0.51438	-0.73531	-0.57862
399.3574	85.9231	217.9530	5.2031	-0.0349	0.9994	0.0000	-0.33195	-0.49502	-0.70433	-0.53817
400.3309	85.9571	217.6885	4.5740	-0.0349	0.9994	0.0000	-0.31834	-0.47712	-0.69504	-0.51465
401.1551	85.9859	217.6202	4.0358	-0.0348	0.9994	0.0000	-0.30475	-0.45750	-0.66751	-0.49183
402.0174	86.0160	217.4621	4.9673	-0.0349	0.9994	0.0000	-0.29311	-0.43966	-0.65775	-0.47130
403.0398	86.0517	217.0739	5.5463	-0.0349	0.9994	0.0000	-0.28291	-0.42455	-0.64523	-0.45313
404.1611	86.0908	216.4996	5.8787	-0.0349	0.9994	0.0000	-0.27458	-0.41151	-0.64372	-0.43706
405.3424	86.1321	215.8066	6.0768	-0.0349	0.9994	0.0000	-0.26767	-0.39967	-0.64310	-0.42224
406.5695	86.1750	215.0509	6.2440	-0.0349	0.9994	0.0000	-0.26167	-0.38780	-0.64702	-0.40774
407.8478	86.2196	214.2655	6.4489	-0.0349	0.9994	0.0000	-0.25634	-0.37578	-0.65186	-0.39313
409.1988	86.2668	213.4625	6.7721	-0.0349	0.9994	0.0000	-0.25129	-0.36296	-0.65794	-0.37837
410.6549	86.3176	212.6416	7.2283	-0.0349	0.9994	0.0000	-0.24640	-0.34985	-0.66465	-0.36358
412.2589	86.3736	211.7964	7.8896	-0.0349	0.9994	0.0000	-0.24092	-0.33576	-0.66999	-0.34896
414.0678	86.4368	210.9184	8.7860	-0.0349	0.9994	0.0000	-0.23467	-0.32175	-0.67526	-0.33470
416.1523	86.5096	210.0060	9.9585	-0.0349	0.9994	0.0000	-0.22633	-0.30728	-0.67603	-0.31917
418.6123	86.5955	209.0673	11.5196	-0.0349	0.9994	0.0000	-0.21576	-0.29254	-0.67562	-0.30349
421.5998	86.6998	208.1249	13.6169	-0.0349	0.9994	0.0000	-0.20128	-0.27606	-0.66781	-0.28600
425.3159	86.8296	207.2227	16.2211	-0.0349	0.9994	0.0000	-0.18211	-0.25864	-0.65789	-0.26194
430.0384	86.9945	206.4577	19.3375	-0.0349	0.9994	0.0000	-0.15809	-0.23259	-0.63938	-0.23028
436.1207	87.2069	205.8625	22.9158	-0.0349	0.9994	0.0000	-0.13201	-0.20024	-0.62136	-0.19099
443.8425	87.4766	205.3455	26.3223	-0.0349	0.9994	0.0000	-0.10819	-0.16515	-0.61027	-0.15329
453.2944	87.8066	204.8571	28.9872	-0.0349	0.9994	0.0000	-0.09063	-0.13304	-0.60946	-0.12148
464.3443	88.1925	204.4151	30.5208	-0.0349	0.9994	0.0000	-0.07766	-0.10704	-0.61185	-0.09491
476.6191	88.6212	204.0472	30.8337	-0.0349	0.9994	0.0000	-0.06902	-0.08848	-0.61310	-0.07329
489.5445	89.0727	203.7708	30.0364	-0.0349	0.9994	0.0000	-0.06063	-0.07505	-0.59400	-0.05651
502.3975	89.5215	203.5551	28.2609	-0.0349	0.9994	0.0000	-0.06936	-0.07823	-0.57485	-0.05504
513.5906	89.9123	203.3157	23.5006	-0.0349	0.9994	0.0000	-0.06949	-0.07364	-0.46869	-0.05944
375.9068	83.9861	231.4459	19.5188	-0.2139	0.9767	-0.0165	-0.38702	-0.39632	-1.08793	-0.45105
380.0363	84.6898	231.9528	21.0137	-0.1287	0.9916	0.0097	-0.40991	-0.47581	-0.51162	-0.52594

384.8201	85.2022	230.9397	19.5916	-0.0789	0.9968	0.0125	-0.43514	-0.56227	-0.72367	-0.61994
389.1773	85.5158	229.0251	16.7678	-0.0556	0.9984	0.0042	-0.40120	-0.58368	-0.55442	-0.65520
392.6346	85.6861	226.9718	13.5107	-0.0376	0.9993	0.0002	-0.37008	-0.57579	-0.60168	-0.67215
395.1932	85.7786	225.2881	10.4788	-0.0341	0.9994	-0.0001	-0.33090	-0.52196	-0.55687	-0.63400
397.0351	85.8420	224.1615	8.0385	-0.0349	0.9994	0.0000	-0.30719	-0.46395	-0.55870	-0.55649
398.3769	85.8889	223.5408	6.3652	-0.0348	0.9994	0.0000	-0.29559	-0.43845	-0.53834	-0.50480
399.4200	85.9253	223.3119	5.5828	-0.0349	0.9994	0.0000	-0.28119	-0.41936	-0.52320	-0.47700
400.2954	85.9558	223.2752	4.8430	-0.0349	0.9994	0.0000	-0.26937	-0.40203	-0.50026	-0.45466
401.2334	85.9886	223.1111	6.0514	-0.0349	0.9994	0.0000	-0.25905	-0.38760	-0.48471	-0.43624
402.3904	86.0290	222.6473	6.7527	-0.0349	0.9994	0.0000	-0.24894	-0.37297	-0.47224	-0.41610
403.6948	86.0746	221.9215	7.0903	-0.0349	0.9994	0.0000	-0.24035	-0.36045	-0.46544	-0.39829
405.0905	86.1233	221.0214	7.2185	-0.0349	0.9994	0.0000	-0.23264	-0.34983	-0.46088	-0.38285
406.5445	86.1741	220.0329	7.2676	-0.0349	0.9994	0.0000	-0.22547	-0.34013	-0.45782	-0.36895
408.0463	86.2265	219.0150	7.3277	-0.0349	0.9994	0.0000	-0.21847	-0.33096	-0.45522	-0.35590
409.6059	86.2810	217.9964	7.4823	-0.0349	0.9994	0.0000	-0.21113	-0.32133	-0.45174	-0.34287
411.2486	86.3384	216.9845	7.7646	-0.0349	0.9994	0.0000	-0.20324	-0.31128	-0.44821	-0.32950
413.0135	86.4000	215.9751	8.2377	-0.0349	0.9994	0.0000	-0.19419	-0.29964	-0.44257	-0.31484
414.9548	86.4678	214.9589	8.9383	-0.0349	0.9994	0.0000	-0.18411	-0.28685	-0.43716	-0.29866
417.1426	86.5442	213.9294	9.9128	-0.0349	0.9994	0.0000	-0.17244	-0.27083	-0.42850	-0.27922
419.6745	86.6326	212.8867	11.2542	-0.0349	0.9994	0.0000	-0.15950	-0.25166	-0.42017	-0.25667
422.6956	86.7381	211.8409	13.0924	-0.0349	0.9994	0.0000	-0.14427	-0.22678	-0.40545	-0.22888
426.4070	86.8677	210.8173	15.4660	-0.0349	0.9994	0.0000	-0.12791	-0.19706	-0.39055	-0.19839
431.0947	87.0314	209.8768	18.4318	-0.0349	0.9994	0.0000	-0.10974	-0.16217	-0.36726	-0.16445
437.1359	87.2423	209.0438	21.9338	-0.0349	0.9994	0.0000	-0.09308	-0.12668	-0.34452	-0.13478
444.8678	87.5124	208.2681	25.3588	-0.0349	0.9994	0.0000	-0.08126	-0.10130	-0.33656	-0.11331
454.4257	87.8461	207.5327	27.9873	-0.0349	0.9994	0.0000	-0.07397	-0.08674	-0.34320	-0.09637
465.6722	88.2389	206.8744	29.4017	-0.0349	0.9994	0.0000	-0.06828	-0.07559	-0.35373	-0.08042
478.2038	88.6766	206.3405	29.6110	-0.0349	0.9994	0.0000	-0.06367	-0.06610	-0.36162	-0.06505
491.4069	89.1377	205.9578	28.8272	-0.0349	0.9994	0.0000	-0.05933	-0.05829	-0.35309	-0.05263
504.4754	89.5940	205.7090	27.2753	-0.0349	0.9994	0.0000	-0.07190	-0.06444	-0.35717	-0.05443
515.8988	89.9928	205.6393	23.1208	-0.0349	0.9994	0.0000	-0.07553	-0.06612	-0.27044	-0.06108
373.3293	83.4485	235.9664	21.0304	-0.2434	0.9699	-0.0116	-0.27400	-0.29603	-0.95567	-0.36164
377.6905	84.3130	236.5582	23.3436	-0.1534	0.9881	0.0097	-0.37336	-0.40886	-0.52309	-0.46547
382.6907	84.9514	235.8978	22.8812	-0.0963	0.9953	0.0138	-0.41559	-0.51752	-0.67627	-0.57890
387.3185	85.3729	234.4405	20.3550	-0.0787	0.9969	0.0032	-0.38613	-0.54733	-0.52764	-0.61684
391.0403	85.6181	232.7810	16.7202	-0.0466	0.9989	0.0003	-0.37329	-0.57363	-0.54930	-0.66502
393.8043	85.7315	231.3630	13.0058	-0.0328	0.9995	0.0002	-0.33169	-0.53698	-0.50283	-0.65967
395.7889	85.7985	230.3840	9.8880	-0.0349	0.9994	0.0000	-0.29072	-0.45730	-0.48129	-0.57761
397.2277	85.8487	229.8333	7.7052	-0.0349	0.9994	0.0000	-0.27912	-0.42015	-0.46849	-0.51047
398.3430	85.8877	229.6277	6.6265	-0.0349	0.9994	0.0000	-0.26325	-0.39631	-0.44988	-0.47251
399.2629	85.9198	229.5730	5.4445	-0.0349	0.9994	0.0000	-0.25182	-0.37711	-0.43654	-0.44585
400.2291	85.9535	229.3379	6.7172	-0.0349	0.9994	0.0000	-0.24168	-0.36123	-0.42406	-0.42377
401.4289	85.9954	228.7392	7.4394	-0.0349	0.9994	0.0000	-0.23105	-0.34344	-0.41640	-0.39806
402.8054	86.0435	227.8127	7.7863	-0.0349	0.9994	0.0000	-0.22178	-0.32769	-0.41090	-0.37486
404.3118	86.0961	226.6605	7.9187	-0.0349	0.9994	0.0000	-0.21335	-0.31390	-0.40901	-0.35453
405.9131	86.1520	225.3924	7.9566	-0.0349	0.9994	0.0000	-0.20575	-0.30161	-0.40830	-0.33669
407.5884	86.2105	224.0910	7.9835	-0.0349	0.9994	0.0000	-0.19880	-0.29064	-0.40980	-0.32108
409.3339	86.2715	222.8027	8.0717	-0.0349	0.9994	0.0000	-0.19218	-0.28018	-0.41154	-0.30686
411.1626	86.3354	221.5449	8.2632	-0.0349	0.9994	0.0000	-0.18577	-0.27001	-0.41460	-0.29344
413.1038	86.4031	220.3174	8.6185	-0.0349	0.9994	0.0000	-0.17917	-0.25921	-0.41707	-0.27993
415.2054	86.4765	219.1103	9.1856	-0.0349	0.9994	0.0000	-0.17235	-0.24780	-0.42045	-0.26599
417.5343	86.5579	217.9125	10.0223	-0.0349	0.9994	0.0000	-0.16486	-0.23483	-0.42232	-0.25082
420.1868	86.6505	216.7158	11.2199	-0.0349	0.9994	0.0000	-0.15670	-0.22067	-0.42493	-0.23449
423.3055	86.7594	215.5183	12.9030	-0.0349	0.9994	0.0000	-0.14713	-0.20412	-0.42510	-0.21693
427.0943	86.8917	214.3297	15.1554	-0.0349	0.9994	0.0000	-0.13612	-0.18701	-0.42552	-0.19844
431.8466	87.0576	213.1857	18.0613	-0.0349	0.9994	0.0000	-0.12321	-0.16875	-0.42359	-0.17816
437.9557	87.2710	212.1046	21.5578	-0.0349	0.9994	0.0000	-0.10914	-0.14973	-0.42252	-0.15536
445.7967	87.5448	211.0640	25.0386	-0.0349	0.9994	0.0000	-0.09497	-0.12935	-0.42551	-0.13131
455.5371	87.8849	210.0749	27.6884	-0.0349	0.9994	0.0000	-0.08306	-0.10908	-0.43609	-0.10832
467.0389	88.2867	209.1979	29.0776	-0.0349	0.9994	0.0000	-0.07336	-0.09065	-0.44886	-0.08709
479.8798	88.7352	208.5028	29.2893	-0.0349	0.9994	0.0000	-0.06636	-0.07590	-0.45755	-0.06857
493.4152	89.2079	208.0302	28.6115	-0.0349	0.9994	0.0000	-0.05984	-0.06429	-0.44609	-0.05400
506.7614	89.6739	207.7949	27.1957	-0.0349	0.9994	0.0000	-0.07046	-0.06804	-0.44477	-0.05461
518.3280	90.0777	207.9463	22.3770	-0.0349	0.9994	0.0000	-0.06384	-0.05958	-0.32292	-0.05231
371.1708	82.9146	240.6786	22.5560	-0.2675	0.9636	-0.0025	-0.15736	-0.20052	-0.76357	-0.27808
375.8116	83.9401	241.2770	25.2841	-0.1738	0.9846	0.0169	-0.34100	-0.35623	-0.48111	-0.41655
381.0786	84.7070	240.8798	25.4856	-0.1120	0.9936	0.0172	-0.40319	-0.48511	-0.59270	-0.54922
385.9970	85.2269	239.8596	23.2271	-0.0913	0.9958	0.0098	-0.38426	-0.52807	-0.49125	-0.59592
389.9670	85.5538	238.6713	19.2188	-0.0655	0.9978	0.0022	-0.37254	-0.57050	-0.48807	-0.65294
392.8937	85.7038	237.6462	14.8251	-0.0302	0.9995	-0.0007	-0.34947	-0.56873	-0.47116	-0.69410
394.9721	85.7702	236.9253	11.0624	-0.0347	0.9994	0.0000	-0.28782	-0.46609	-0.42368	-0.61349
396.4678	85.8222	236.5007	8.4270	-0.0349	0.9994	0.0000	-0.27477	-0.41810	-0.42204	-0.53394
397.6321	85.8629	236.3126	7.0942	-0.0349	0.9994	0.0000	-0.25745	-0.38891	-0.39934	-0.48420
398.5745	85.8958	236.1901	5.4363	-0.0349	0.9994	0.0000	-0.24585	-0.36774	-0.39249	-0.45369
399.5050	85.9283	235.8294	6.4703	-0.0349	0.9994	0.0000	-0.23620	-0.35156	-0.38017	-0.43002
400.6263	85.9674	235.0652	7.0817	-0.0349	0.9994	0.0000	-0.22543	-0.33284	-0.37493	-0.40182
401.9165	86.0124	233.9377	7.4490	-0.0349	0.9994	0.0000	-0.21570	-0.31576	-0.36857	-0.37548
403.3639	86.0630	232.5518	7.6875	-0.0349	0.9994	0.0000	-0.20649	-0.30015	-0.36576	-0.35138
404.9547	86.1185	231.0241	7.8684	-0.0349	0.9994	0.0000	-0.19789	-0.28567	-0.36251	-0.32933
406.6731	86.1786	229.4488	8.0370	-0.0349	0.9994	0.0000	-0.18995	-0.27256	-0.36090	-0.30967
408.5091	86.2426	227.8841	8.2382	-0.0349	0.9994	0.0000	-0.18238	-0.26026	-0.35883	-0.29195
410.4641	86.3109	226.3573	8.5037	-0.0349	0.9994	0.0000	-0.17513	-0.24874	-0.35749	-0.27596
412.5549	86.3839	224.8757	8.8889	-0.0349	0.9994	0.0000	-0.16785	-0.23737	-0.35536	-0.26099
414.8178	86.4630	223.4330	9.4483	-0.0349	0.9994	0.0000	-0.16033	-0.22592	-0.35341	-0.24652
417.3114	86.5501	222.0176	10.2500	-0.0349	0.9994	0.0000	-0.15213	-0.21349	-0.34984	-0.23151
420.1269	86.6484	220.6163	11.3958	-0.0349	0.9994	0.0000	-0.14308	-0.19979	-0.34588	-0.21534
423.4043	86.7628	219.2186	13.0208	-0.0349	0.9994	0.0000	-0.13255	-0.18350	-0.33921	-0.19666
427.3503	86.9006	217.8215	15.2422	-0.0349	0.9994	0.0000	-0.12059	-0.16422	-0.33165	-0.17551
432.2651	87.0723	216.4427	18.1572	-0.0349	0.9994	0.0000	-0.10687	-0.14140	-0.32101	-0.15149
438.5513	87.2918	215.0963	21.6799	-0.0349	0.9994	0.0000	-0.09263	-0.11584	-0.30838	-0.12698
446.6024	87.5729	213.7800	25.1975	-0.0349	0.9994	0.0000	-0.08060	-0.09387	-0.30119	-0.10656
456.6027	87.9222	212.5310	27.8617	-0.0349	0.9994	0.0000	-0.07238	-0.07957	-0.30565	-0.09035
468.4169	88.3348	211.4358	29.2649	-0.0349	0.9994	0.0000	-0.06644	-0.06936	-0.31612	-0.07560
481.6167	88.7959	210.5882	29.5495	-0.0349	0.9994	0.0000	-0.06206	-0.06089	-0.32451	-0.06143
495.5377	89.2821	210.0479	29.0433	-0.0349	0.9994	0.0000	-0.05879	-0.05407	-0.31818	-0.05048
509.2257	89.7600	209.8719	27.6292	-0.0349	0.9994	0.0000	-0.07338	-0.06144	-0.33203	-0.05389
520.8639	90.1663	210.2639	21.3021	-0.0349	0.9994	0.0000	-0.07083	-0.05895	-0.22831	-0.05452
369.5104	82.3771	245.5482	23.9027	-0.2864	0.9578	0.0264	-0.00910	-0.07542	-0.58661	-0.17185
374.4358	83.5678	246.0301	26.5888	-0.1969	0.9799	0.0310	-0.28785	-0.29206	-0.46324	-0.36465
380.0227	84.4990	245.7610	27.0590	-0.1311	0.9912	0.0158	-0.38770	-0.45855	-0.53670	-0.52224
385.3531	85.1264	245.0733	24.9631	-0.0979	0.9952	0.0055	-0.38984	-0.52739	-0.47436	-0.59461
389.7182	85.5183	244.2922	20.4959	-0.0761	0.9971	0.0050	-0.37223	-0.58058	-0.45163	-0.65467
392.9091	85.7039	243.6329	15.2542	-0.0304	0.9995	0.0010	-0.35586	-0.59073	-0.44713	-0.71474
395.1118	85.7750	243.1632	10.8258	-0.0347	0.9994	0.0000	-0.28305	-0.46588	-0.38627	-0.63346
396.6482	85.8285	242.8546	7.8974	-0.0349	0.9994	0.0000	-0.26848	-0.40999	-0.38869	-0.54156
397.8301	85.8698	242.6513	6.5310	-0.0349	0.9994	0.0000	-0.25081	-0.37722	-0.36563	-0.48349

398.7496	85.9019	242.4131	4.6507	-0.0349	0.9994	0.0000	-0.23937	-0.35493	-0.36206	-0.45084
399.5586	85.9302	241.9051	5.2308	-0.0349	0.9994	0.0000	-0.23122	-0.34058	-0.35198	-0.42870
400.4685	85.9619	241.0084	5.6587	-0.0349	0.9994	0.0000	-0.22186	-0.32399	-0.34908	-0.40319
401.5065	85.9982	239.7638	6.0485	-0.0349	0.9994	0.0000	-0.21344	-0.30908	-0.34460	-0.37920
402.7077	86.0401	238.2590	6.4351	-0.0349	0.9994	0.0000	-0.20505	-0.29479	-0.34301	-0.35624
404.0929	86.0885	236.5930	6.8313	-0.0349	0.9994	0.0000	-0.19672	-0.28070	-0.34086	-0.33383
405.6664	86.1434	234.8515	7.2427	-0.0349	0.9994	0.0000	-0.18862	-0.26711	-0.33975	-0.31253
407.4253	86.2048	233.0928	7.6864	-0.0349	0.9994	0.0000	-0.18067	-0.25380	-0.33831	-0.29238
409.3699	86.2727	231.3489	8.1786	-0.0349	0.9994	0.0000	-0.17292	-0.24094	-0.33740	-0.27357
411.5108	86.3475	229.6343	8.7657	-0.0349	0.9994	0.0000	-0.16526	-0.22828	-0.33623	-0.25595
413.8760	86.4301	227.9498	9.4932	-0.0349	0.9994	0.0000	-0.15760	-0.21573	-0.33553	-0.23933
416.5155	86.5222	226.2892	10.4293	-0.0349	0.9994	0.0000	-0.14962	-0.20271	-0.33426	-0.22312
419.5120	86.6269	224.6420	11.6755	-0.0349	0.9994	0.0000	-0.14121	-0.18902	-0.33332	-0.20697
422.9989	86.7487	222.9962	13.3762	-0.0349	0.9994	0.0000	-0.13195	-0.17390	-0.33133	-0.18995
427.1804	86.8947	221.3436	15.6666	-0.0349	0.9994	0.0000	-0.12180	-0.15725	-0.32970	-0.17199
432.3562	87.0754	219.6921	18.6504	-0.0349	0.9994	0.0000	-0.11056	-0.13944	-0.32856	-0.15312
438.9264	87.3049	218.0548	22.2106	-0.0349	0.9994	0.0000	-0.09884	-0.12172	-0.32840	-0.13410
447.2832	87.5967	216.4475	25.7325	-0.0349	0.9994	0.0000	-0.08773	-0.10592	-0.33144	-0.11591
457.6146	87.9575	214.9320	28.4005	-0.0349	0.9994	0.0000	-0.07839	-0.09201	-0.34223	-0.09836
469.7917	88.3828	213.6216	29.8599	-0.0349	0.9994	0.0000	-0.07065	-0.07895	-0.35689	-0.08089
483.3934	88.8580	212.6340	30.2917	-0.0349	0.9994	0.0000	-0.06463	-0.06719	-0.36719	-0.06438
497.7481	89.3593	212.0525	30.0083	-0.0349	0.9994	0.0000	-0.06002	-0.05772	-0.36021	-0.05185
511.8402	89.8513	211.9760	28.4610	-0.0349	0.9994	0.0000	-0.07047	-0.06107	-0.36611	-0.05229
523.4929	90.2581	212.6063	19.9658	-0.0349	0.9994	0.0000	-0.05725	-0.04952	-0.25132	-0.04489
368.5554	81.9564	249.1384	11.1412	-0.3097	0.9495	0.0508	0.08586	0.02823	-0.42275	-0.07866
373.6571	83.3126	249.5196	12.9262	-0.2187	0.9757	0.0161	-0.24961	-0.25196	-0.43346	-0.33466
379.4886	84.3889	249.3704	14.6801	-0.1460	0.9893	-0.0008	-0.38962	-0.45659	-0.50854	-0.52024
385.2232	85.1071	248.9810	15.1740	-0.1006	0.9949	-0.0053	-0.40010	-0.54076	-0.46707	-0.60625
390.0774	85.5289	248.5828	13.7907	-0.0691	0.9976	0.0009	-0.37875	-0.60007	-0.44508	-0.67222
393.6950	85.7269	248.3100	11.0842	-0.0339	0.9994	-0.0001	-0.33523	-0.57393	-0.41418	-0.70603
396.1698	85.8118	248.1547	8.2018	-0.0349	0.9994	0.0000	-0.26591	-0.43002	-0.36180	-0.60740
397.8287	85.8698	248.0306	6.0888	-0.0350	0.9994	0.0000	-0.24975	-0.37339	-0.35699	-0.50155
399.0415	85.9121	247.8540	5.1833	-0.0348	0.9994	0.0000	-0.23309	-0.34042	-0.33840	-0.44454
399.8944	85.9419	247.5140	3.4797	-0.0350	0.9994	0.0000	-0.22320	-0.32030	-0.33456	-0.41390
400.5056	85.9632	246.8934	3.6309	-0.0348	0.9994	0.0000	-0.21754	-0.31072	-0.32803	-0.39799
401.1213	85.9847	245.9547	3.8885	-0.0349	0.9994	0.0000	-0.21099	-0.29967	-0.32591	-0.37997
401.8167	86.0090	244.7268	4.2633	-0.0349	0.9994	0.0000	-0.20530	-0.29035	-0.32302	-0.36384
402.6626	86.0386	243.2641	4.7249	-0.0349	0.9994	0.0000	-0.19920	-0.28066	-0.32173	-0.34725
403.7084	86.0751	241.6316	5.2551	-0.0349	0.9994	0.0000	-0.19269	-0.27015	-0.32006	-0.32952
404.9812	86.1195	239.8922	5.8389	-0.0349	0.9994	0.0000	-0.18576	-0.25887	-0.31876	-0.31095
406.4946	86.1723	238.0927	6.4846	-0.0349	0.9994	0.0000	-0.17856	-0.24694	-0.31714	-0.29194
408.2597	86.2339	236.2603	7.2039	-0.0349	0.9994	0.0000	-0.17112	-0.23458	-0.31554	-0.27295
410.2950	86.3050	234.4107	8.0450	-0.0349	0.9994	0.0000	-0.16349	-0.22186	-0.31345	-0.25424
412.6337	86.3867	232.5485	9.0448	-0.0349	0.9994	0.0000	-0.15563	-0.20880	-0.31128	-0.23597
415.3289	86.4808	230.6725	10.2684	-0.0349	0.9994	0.0000	-0.14736	-0.19519	-0.30830	-0.21803
418.4636	86.5903	228.7781	11.7988	-0.0349	0.9994	0.0000	-0.13851	-0.18081	-0.30493	-0.20027
422.1678	86.7197	226.8597	13.7651	-0.0349	0.9994	0.0000	-0.12863	-0.16505	-0.29994	-0.18197
426.6377	86.8758	224.9150	16.2820	-0.0349	0.9994	0.0000	-0.11757	-0.14744	-0.29348	-0.16264
432.1589	87.0685	222.9547	19.4245	-0.0349	0.9994	0.0000	-0.10516	-0.12789	-0.28643	-0.14200
439.1072	87.3112	221.0005	23.0434	-0.0349	0.9994	0.0000	-0.09219	-0.10715	-0.27927	-0.12104
447.8505	87.6165	219.0879	26.5626	-0.0349	0.9994	0.0000	-0.08054	-0.08847	-0.27407	-0.10243
458.5691	87.9908	217.3038	29.2697	-0.0349	0.9994	0.0000	-0.07182	-0.07482	-0.27689	-0.08672
471.1462	88.4301	215.7862	30.8756	-0.0349	0.9994	0.0000	-0.06557	-0.06476	-0.28602	-0.07227
485.1791	88.9204	214.6763	31.5638	-0.0349	0.9994	0.0000	-0.06107	-0.05637	-0.29365	-0.05840
500.0001	89.4380	214.0828	31.5551	-0.0349	0.9994	0.0000	-0.05934	-0.05060	-0.29098	-0.04882
514.5510	89.9459	214.1359	29.7891	-0.0349	0.9994	0.0000	-0.07395	-0.05800	-0.31134	-0.05199
526.1881	90.3522	214.9827	18.5540	-0.0349	0.9994	0.0000	-0.07418	-0.05910	-0.21871	-0.05380
368.1234	81.7307	251.3523	10.9079	-0.3323	0.9430	0.0178	0.13644	0.07233	-0.35271	-0.04458
373.2854	83.2203	251.6697	12.1812	-0.2320	0.9726	-0.0109	-0.23983	-0.24317	-0.43947	-0.32925
379.2591	84.3755	251.6693	13.6639	-0.1504	0.9885	-0.0181	-0.39271	-0.46255	-0.50510	-0.52394
385.3098	85.1387	251.5458	13.9492	-0.0986	0.9950	-0.0131	-0.40349	-0.55338	-0.46155	-0.61603
390.6352	85.5664	251.4690	12.3944	-0.0576	0.9983	-0.0029	-0.37284	-0.60267	-0.43770	-0.68061
394.7626	85.7638	251.5310	9.5228	-0.0342	0.9994	-0.0003	-0.30555	-0.52746	-0.38495	-0.67700
397.6406	85.8632	251.6736	6.5556	-0.0349	0.9994	0.0000	-0.23931	-0.36432	-0.33678	-0.53834
399.5186	85.9288	251.7482	4.5076	-0.0349	0.9994	0.0000	-0.22559	-0.31991	-0.32992	-0.42438
400.7928	85.9733	251.6396	3.7694	-0.0349	0.9994	0.0000	-0.21036	-0.28809	-0.31352	-0.37938
401.5609	86.0001	251.2524	2.3792	-0.0349	0.9994	0.0000	-0.20307	-0.27403	-0.31125	-0.35458
401.9623	86.0141	250.5823	2.2920	-0.0349	0.9994	0.0000	-0.20013	-0.27029	-0.30748	-0.34751
402.3087	86.0262	249.6809	2.4422	-0.0349	0.9994	0.0000	-0.19652	-0.26560	-0.30700	-0.33868
402.7014	86.0399	248.5598	2.7654	-0.0349	0.9994	0.0000	-0.19362	-0.26244	-0.30567	-0.33170
403.2221	86.0581	247.2437	3.2097	-0.0350	0.9994	0.0000	-0.19013	-0.25833	-0.30539	-0.32332
403.9308	86.0828	245.7651	3.7517	-0.0348	0.9994	0.0000	-0.18601	-0.25281	-0.30459	-0.31277
404.8696	86.1156	244.1623	4.3740	-0.0349	0.9994	0.0000	-0.18099	-0.24553	-0.30381	-0.29984
406.0676	86.1574	242.4646	5.0876	-0.0349	0.9994	0.0000	-0.17534	-0.23675	-0.30272	-0.28499
407.5509	86.2092	240.6868	5.9052	-0.0349	0.9994	0.0000	-0.16907	-0.22670	-0.30159	-0.26875
409.3543	86.2722	238.8385	6.8928	-0.0349	0.9994	0.0000	-0.16226	-0.21555	-0.30005	-0.25154
411.5292	86.3481	236.9190	8.0962	-0.0349	0.9994	0.0000	-0.15501	-0.20349	-0.29853	-0.23379
414.1475	86.4396	234.9247	9.5949	-0.0349	0.9994	0.0000	-0.14716	-0.19046	-0.29643	-0.21570
417.3105	86.5500	232.8518	11.4687	-0.0349	0.9994	0.0000	-0.13871	-0.17645	-0.29419	-0.19755
421.1618	86.6845	230.6991	13.8309	-0.0349	0.9994	0.0000	-0.12935	-0.16118	-0.29127	-0.17921
425.8995	86.8500	228.4752	16.7385	-0.0349	0.9994	0.0000	-0.11893	-0.14439	-0.28709	-0.16055
431.7882	87.0556	226.2048	20.1825	-0.0349	0.9994	0.0000	-0.10738	-0.12630	-0.28285	-0.14153
439.1583	87.3130	223.9305	23.9621	-0.0349	0.9994	0.0000	-0.09545	-0.10815	-0.28049	-0.12299
448.3284	87.6332	221.7159	27.5847	-0.0349	0.9994	0.0000	-0.08461	-0.09266	-0.28076	-0.10650
459.4594	88.0219	219.6752	30.5017	-0.0349	0.9994	0.0000	-0.07590	-0.08068	-0.28769	-0.09130
472.4482	88.4756	217.9700	32.4687	-0.0349	0.9994	0.0000	-0.06911	-0.07033	-0.29991	-0.07596
486.9140	88.9810	216.7635	33.5997	-0.0349	0.9994	0.0000	-0.06365	-0.06042	-0.30896	-0.06075
502.1983	89.5148	216.1884	33.9472	-0.0349	0.9994	-0.0001	-0.06128	-0.05323	-0.30705	-0.05017
517.2375	90.0397	216.3859	31.9917	-0.0349	0.9994	0.0000	-0.07074	-0.05628	-0.31592	-0.04969
528.8827	90.4462	217.4072	17.5864	-0.0349	0.9994	0.0000	-0.05502	-0.04466	-0.22266	-0.03928
367.9172	81.6503	253.5678	10.9026	-0.3473	0.9377	-0.0115	0.19261	0.13266	-0.25305	0.00703
373.0600	83.2028	253.7451	12.3016	-0.2393	0.9707	-0.0236	-0.22014	-0.22132	-0.43410	-0.31255
379.1346	84.3980	253.7946	13.5241	-0.1502	0.9884	-0.0205	-0.39466	-0.46357	-0.50063	-0.52319
385.4541	85.1807	253.7990	13.3842	-0.0943	0.9955	-0.0116	-0.40588	-0.55826	-0.45785	-0.61961
391.1878	85.6034	253.8497	11.3980	-0.0487	0.9988	-0.0034	-0.37043	-0.60261	-0.43230	-0.68256
395.7693	85.7988	254.0030	8.2509	-0.0344	0.9994	0.0000	-0.28663	-0.50171	-0.36322	-0.65516
399.0359	85.9119	254.2153	5.2924	-0.0349	0.9994	0.0000	-0.22115	-0.32291	-0.31980	-0.49842
401.1577	85.9860	254.3518	3.3814	-0.0349	0.9994	0.0000	-0.20792	-0.27863	-0.31157	-0.36719
402.5154	86.0334	254.2921	2.6814	-0.0349	0.9994	0.0000	-0.19372	-0.24827	-0.29667	-0.32620
403.2102	86.0577	253.8974	1.6026	-0.0349	0.9994	0.0000	-0.18824	-0.23968	-0.29527	-0.30727
403.4505	86.0661	253.2038	1.4949	-0.0349	0.9994	0.0000	-0.18703	-0.23939	-0.29270	-0.30704
403.6280	86.0723	252.3434	1.6105	-0.0349	0.9994	0.0000	-0.18492	-0.23820	-0.29331	-0.30351
403.8410	86.0797	251.3236	1.8801	-0.0349	0.9994	0.0000	-0.18350	-0.23826	-0.29280	-0.30178
404.1634	86.0910	250.1574	2.2641	-0.0349	0.9994	0.0000	-0.18152	-0.23741	-0.29327	-0.29859
404.6495	86.1080	248.8539	2.7491	-0.0349	0.9994	0.0000	-0.17894	-0.23523	-0.29309	-0.29317
405.3450	86.1322	247.4306	3.3252	-0.0349	0.9994	0.0000	-0.17547	-0.23119	-0.29267	-0.28502

406.2876	86.1651	245.8997	4.0062	-0.0349	0.9994	0.0000	-0.17118	-0.22528	-0.29174	-0.27429
407.5122	86.2079	244.2611	4.7974	-0.0349	0.9994	0.0000	-0.16610	-0.21768	-0.29057	-0.26136
409.0685	86.2622	242.5150	5.7875	-0.0349	0.9994	0.0000	-0.16021	-0.20843	-0.28879	-0.24649
411.0269	86.3306	240.6510	7.0295	-0.0349	0.9994	0.0000	-0.15353	-0.19765	-0.28670	-0.23003
413.4819	86.4163	238.6578	8.6272	-0.0349	0.9994	0.0000	-0.14600	-0.18534	-0.28388	-0.21230
416.5617	86.5239	236.5255	10.6771	-0.0349	0.9994	0.0000	-0.13754	-0.17151	-0.28038	-0.19371
420.4374	86.6592	234.2493	13.3146	-0.0349	0.9994	0.0000	-0.12786	-0.15602	-0.27603	-0.17449
425.3265	86.8300	231.8417	16.5780	-0.0349	0.9994	0.0000	-0.11687	-0.13873	-0.27003	-0.15487
431.4881	87.0451	229.3380	20.4040	-0.0349	0.9994	0.0000	-0.10457	-0.11995	-0.26254	-0.13506
439.2126	87.3149	226.8047	24.5559	-0.0349	0.9994	0.0000	-0.09184	-0.10088	-0.25585	-0.11590
448.7622	87.6484	224.3394	28.6277	-0.0349	0.9994	0.0000	-0.08044	-0.08409	-0.25120	-0.09903
460.2676	88.0502	222.0891	32.2047	-0.0349	0.9994	0.0000	-0.07160	-0.07117	-0.25260	-0.08411
473.6299	88.5168	220.2405	35.0137	-0.0349	0.9994	0.0000	-0.06530	-0.06114	-0.26002	-0.06992
488.4785	89.0357	218.9775	36.9829	-0.0349	0.9994	0.0000	-0.06073	-0.05252	-0.26690	-0.05610
504.1596	89.5833	218.4517	37.8988	-0.0349	0.9994	0.0000	-0.06138	-0.04838	-0.27018	-0.04817
519.6584	90.1242	218.7879	35.9941	-0.0349	0.9994	0.0000	-0.07420	-0.05431	-0.29419	-0.04924
531.4355	90.5354	219.9119	18.0849	-0.0349	0.9994	0.0000	-0.09403	-0.07289	-0.25359	-0.06360
367.8432	81.6496	255.8415	10.9461	-0.3580	0.9337	-0.0108	0.23515	0.17114	-0.20576	0.03744
372.9255	83.2187	255.8890	13.0605	-0.2433	0.9697	-0.0211	-0.21291	-0.21537	-0.43800	-0.30910
379.0689	84.4315	255.9123	14.2609	-0.1487	0.9887	-0.0200	-0.39880	-0.47124	-0.49619	-0.52875
385.5711	85.2161	255.9283	13.7163	-0.0901	0.9959	-0.0113	-0.40696	-0.56589	-0.45078	-0.62692
391.5752	85.6286	255.9595	11.3328	-0.0433	0.9991	-0.0033	-0.36439	-0.60050	-0.42398	-0.68670
396.4664	85.8225	256.0278	7.9745	-0.0347	0.9994	0.0004	-0.26563	-0.46181	-0.34393	-0.62723
400.0421	85.9470	256.1273	4.8951	-0.0349	0.9994	0.0000	-0.20331	-0.26961	-0.30566	-0.42718
402.4377	86.0307	256.2031	2.8861	-0.0349	0.9994	0.0000	-0.19428	-0.24307	-0.29662	-0.29402
403.9690	86.0842	256.1925	2.0029	-0.0349	0.9994	0.0000	-0.18051	-0.21790	-0.28225	-0.28351
404.6308	86.1073	255.8042	1.1344	-0.0349	0.9994	0.0000	-0.17752	-0.21497	-0.28287	-0.26704
404.7483	86.1114	255.0403	1.1218	-0.0349	0.9994	0.0000	-0.17596	-0.21577	-0.27711	-0.27235
404.8681	86.1156	254.1696	1.2874	-0.0349	0.9994	0.0000	-0.17423	-0.21565	-0.27775	-0.27189
405.0491	86.1219	253.1976	1.5852	-0.0348	0.9994	0.0000	-0.17309	-0.21612	-0.27705	-0.27167
405.3367	86.1319	252.1282	1.9685	-0.0349	0.9994	0.0000	-0.17158	-0.21589	-0.27753	-0.27016
405.7609	86.1467	250.9567	2.4169	-0.0349	0.9994	0.0000	-0.16973	-0.21486	-0.27803	-0.26699
406.3605	86.1677	249.6859	2.9339	-0.0349	0.9994	0.0000	-0.16725	-0.21248	-0.27846	-0.26166
407.1782	86.1962	248.3125	3.5493	-0.0349	0.9994	0.0000	-0.16403	-0.20852	-0.27858	-0.25400
408.2507	86.2337	246.8238	4.2505	-0.0349	0.9994	0.0000	-0.16017	-0.20319	-0.27855	-0.24443
409.6390	86.2822	245.2127	5.1471	-0.0349	0.9994	0.0000	-0.15556	-0.19628	-0.27804	-0.23288
411.4276	86.3446	243.4601	6.2897	-0.0349	0.9994	0.0000	-0.15022	-0.18788	-0.27726	-0.21960
413.7262	86.4248	241.5493	7.7822	-0.0349	0.9994	0.0000	-0.14397	-0.17780	-0.27581	-0.20463
416.6812	86.5280	239.4648	9.7351	-0.0349	0.9994	0.0000	-0.13674	-0.16604	-0.27356	-0.18837
420.4837	86.6608	237.1968	12.3032	-0.0349	0.9994	0.0000	-0.12828	-0.15247	-0.27044	-0.17113
425.3721	86.8316	234.7553	15.5846	-0.0349	0.9994	0.0000	-0.11840	-0.13694	-0.26596	-0.15327
431.6144	87.0495	232.1764	19.6123	-0.0349	0.9994	0.0000	-0.10704	-0.11975	-0.26009	-0.13513
439.4891	87.3245	229.5380	24.3025	-0.0349	0.9994	0.0000	-0.09505	-0.10218	-0.25540	-0.11755
449.2307	87.6647	226.9615	29.4123	-0.0349	0.9994	0.0000	-0.08415	-0.08690	-0.25318	-0.10198
460.9488	88.0739	224.6212	34.5760	-0.0349	0.9994	0.0000	-0.07545	-0.07510	-0.25649	-0.08763
474.5375	88.5485	222.7259	39.3070	-0.0349	0.9994	0.0000	-0.06907	-0.06551	-0.26533	-0.07322
489.6174	89.0756	221.4780	43.0957	-0.0350	0.9994	0.0000	-0.06397	-0.05633	-0.27269	-0.05867
505.5287	89.6312	221.0391	45.2895	-0.0348	0.9994	0.0000	-0.06390	-0.05117	-0.27587	-0.04958
521.3676	90.1838	221.4954	44.2677	-0.0349	0.9994	0.0000	-0.07528	-0.05601	-0.29127	-0.04967
533.6021	90.6110	222.5693	22.2800	-0.0349	0.9994	0.0000	-0.06424	-0.05007	-0.23223	-0.03942